

APRIL 1960

MATERIAL HANDLING ILLUSTRATED

6 Ways To Dump Materials

see table of contents—page 2

The Mass Circulation Magazine
for the Material Handling Market

Form 3547 Requested

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Cleveland 15, Ohio

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The Allis-Chalmers 2000-lb FT20-24 is available with either standard or POWER SHIFT transmission — for either gasoline or LP gas — with pneumatic tires as FTP20-24.

The FT20 gives you dollar-saving differences you can MEASURE

- ... **in horsepower** — 35 husky industrial engine horsepower, with high torque at usable working speeds, gives the FT20 the most power in its class.
- ... **in percent** — climbs grades up to 40% loaded — has power, weight distribution and lateral stability to outclimb other 2,000-lb trucks.
- ... **in inches** — stacks to a height of 131¼ in. with standard mast — highest of them all.
- ... **in hours** saved servicing — you can get at the engine for routine service in seconds, remove the radiator in 9 minutes, change the clutch in only half an hour.

Let your Allis-Chalmers dealer show you how you will be dollars ahead by any unit of measure with Allis-Chalmers FT20-24. He will be glad to demonstrate. Allis-Chalmers, Milwaukee 1, Wisconsin.



BH-126Z

ALLIS-CHALMERS

MATERIAL HANDLING ILLUSTRATED



"They treat you fine
at the
Goodyear Sign!"

HERE'S NEOTHANE

solid answer to your most demanding haulage problems

TAKE A GOOD LOOK—for this Goodyear "solid" is an entirely new kind of tire. Called *Neothane*, it's made to order for the tough, heavily overloaded hauling that leads to premature failure of ordinary tires.

ITEM: it lasts as much as *four times* longer than conventional solid tires.

ITEM: it carries *two to four times* the load capacity of standard solids.

ITEM: it offers better resistance to broken glass, metal chips, sharp stones and other hazards which cause ordinary tires to fail.

ITEM: it won't mark even finely finished floors—saves plant maintenance and cargo damage—assures smoother hauling.

These Xtra-Service, Xtra-Capacity advantages are yours only with *Neothane*—the new Goodyear polyurethane that wears like iron, but has the quiet resilience of rubber.

FOR MORE INFORMATION on this amazing new tire—and how it can save for you—write Goodyear, Industrial Tire Sales, Akron 16, Ohio.



INDUSTRIAL TIRES BY

GOODYEAR

Neothane—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

MORE TONS ARE HAULED ON GOODYEAR TRUCK TIRES THAN ON ANY OTHER KIND

Circle 43 on Reader Service Card

FOR EVERY JOB REQUIREMENT

MAGLINER 4-WHEEL TRUCKS

• Magnesium • Aluminum

Lightweight!

Maneuverable!

Ruggedly Built!



WHICH OF THESE MAGLINER TRUCKS WILL SAVE YOU MONEY? Lightweight Magliners for heavyweight jobs—that's the trend! Plants . . . warehouses . . . stores . . . delivery work—whatever the application . . . costs go down with Magliners on the job! Check into the money-saving advantages of Magliner 4-Wheel Trucks for your operation . . . get a Magline quotation before you buy.

Write for illustrated bulletin on any of above models



MAGLINE INC. • P. O. Box 334 • Pinconning, Mich.
Canadian Factory: Magline of Canada, Ltd., Rexford, Ontario

Circle 57 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

VOL. 9 No. 2

APRIL, 1960

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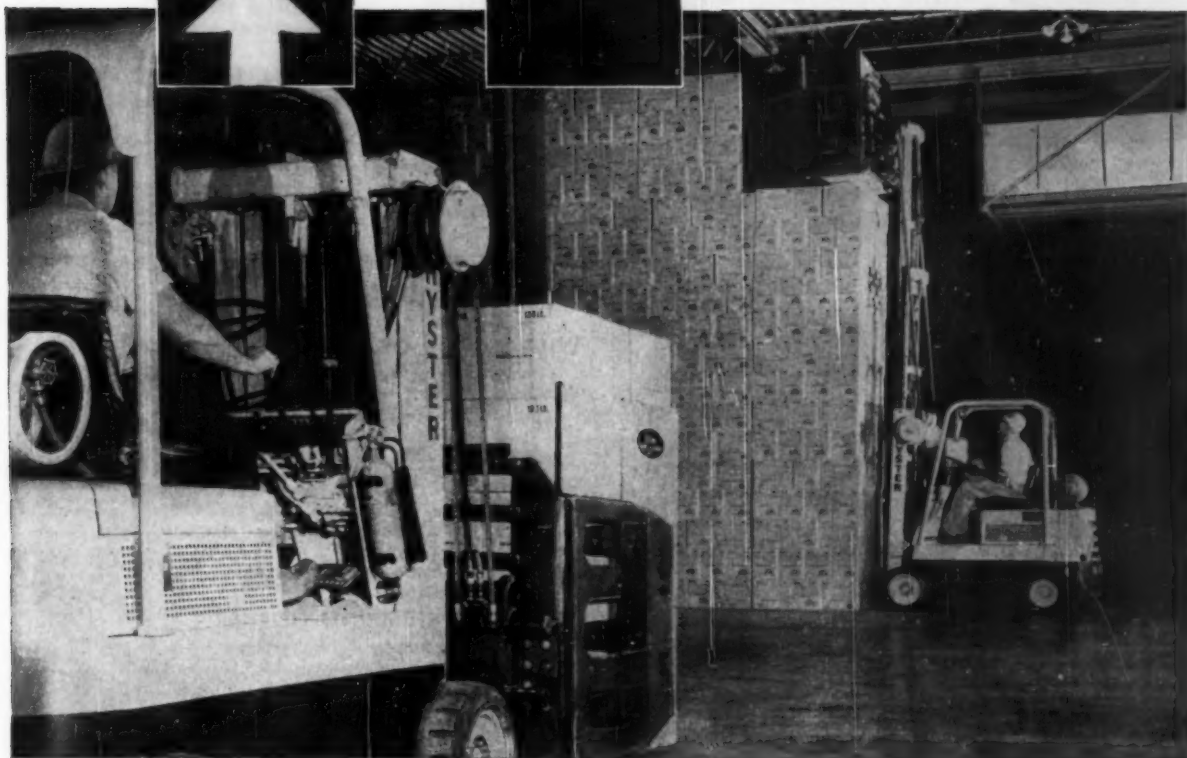
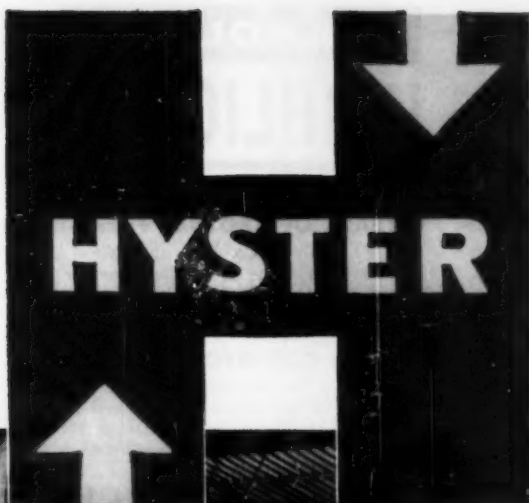
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The latest in palletless handling—
HYSTER® has it!

INDUSTRIAL TRUCK DIVISION—Lift trucks, mobile cranes, straddle carriers
 TRACTOR EQUIPMENT DIVISION—Construction and logging equipment
 MARTIN TRAILER DIVISION—Heavy machinery hauling trailers
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 FACTORIES: Portland, Oregon (Home Office); Danville, Peoria, Kewanee, Illinois.
 Sao Paulo, Brazil; Glasgow, Scotland; Nijmegen, The Netherlands; Sydney, Australia (Licensee)

New Cart-N-Grab® clamp—thin, non-skid aluminum plates—precision side-shifting—controlled clamping pressure.

plus

Hyster SpaceSaver®—the newest cushion tire warehouse truck—shortest turning radius—power steering—engineered accessibility.

plus

Exclusive Monotrol control—safer, faster, more productive.

Call your Hyster dealer, or write for literature



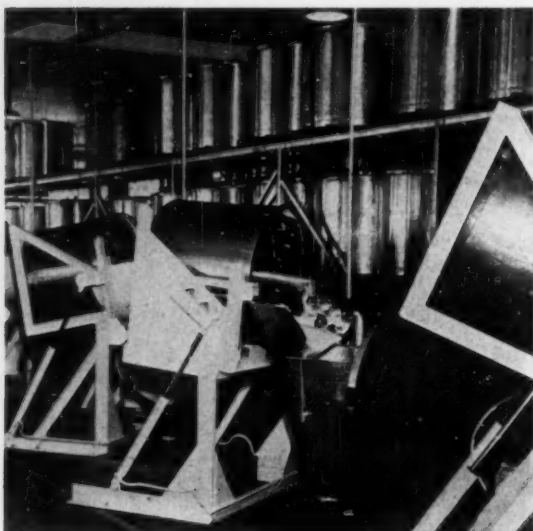
HYSTER COMPANY
 INDUSTRIAL TRUCK DIVISION
 P. O. Box 847 • Danville, Illinois

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TUBAR DUMPERS

Solve Another Handling Problem!

Large, National Cosmetics Firm Uses Tubar Dumpers For Emptying Eighty Gallon Storage Cans



Problem: Feeding eighty gallon stainless steel cans of creams and pastes to tube-filling machines on the floor below.

Solution: A battery of Tubar Dumpers elevate the cans and feed the creams and pastes into funnels and supply pipes with production line efficiency.

Use Tubar Dumpers to solve your handling problems . . . cut operating and labor costs . . . speed up production. We custom build Tubar Dumpers to fit your exact job needs. Our representatives are available to give you complete information. Write today!



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HANDLING HIGHLIGHTS

9 YEARS OF TROUBLE FREE TIRE USE

B. F. Goodrich Co. Tire and Wheel Analysis Service made recommendations to a Florida supermarket warehouse. Result: no tire trouble in 9 years. Circle number for more information.

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STOCKS CONVEYOR PARTS

Buschman has standardized wheel, roller, and belt conveyors in stock. The company also builds and installs complete systems. Circle number for more information.

Circle 16 on Reader Service Card

A COMPLETE LINE OF AIR HOISTS

Look over a most complete line of overhead air hoists. Find out the simple, low-cost way to eliminate back-breaking lifting and tugging. Send for free bulletins from Gardner-Denver Co.

Circle 41 on Reader Service Card

CUT PACKAGING TIME 50%

Discover how to cut packaging time 50%, cut man-hours 30%, and slice damage claims 20% with a Stanley Steel Strapping System. Circle number for quick information.

Circle 82 on Reader Service Card

WIDE RANGE OF CONVEYORS

A wide range of belt widths and section lengths, easily assembled, is featured by Mathews Conveyor Co. Circle number for bulletin and catalog.

Circle 63 on Reader Service Card

DOCKBOARD COSTS LITTLE

An air-powered hydraulic dockboard costs little, is cheap to install and easy to operate. Get more information from Freightliner Corp.

Circle 39 on Reader Service Card

TRY A SELF-DUMPING HOPPER

Solve your aggregate storage problem with a self-dumping hopper from Roura Iron Works Inc. Circle number for more information on cutting costs, saving time.

Circle 78 on Reader Service Card

ASSEMBLY LINE KIT

Inexpensive angle iron tracks and grooved wheel casters will allow you to build your own assembly lines. Find out details from The Bassick Co.

Circle 13 on Reader Service Card

CONVEYOR SAVES TIME

A freight conveyor increases usable floor space, moves up to 2,000 lb, handles assorted and palletized loads, installs at any angle, and saves hours of labor. Ask the M-B Corp. about its Moto Flow Freight Conveyor.

Circle 56 on Reader Service Card

LOW COST LIFT TRUCKS

Three inexpensive lift truck models from a line of 80 are featured by Big Joe Manufacturing Co. Get more information from the company.

Circle 8 on Reader Service Card

ECONOMICAL CONTAINER

A versatile stacking and nesting container is designed to help save you money. Find out how from the G. B. Lewis Co.

Circle 53 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

OVERHEAD LOAD HANDLING

Handle materials more efficiently with Manning, Maxwell & Moore Inc. overhead load-handling equipment. Get more information by circling number.

Circle 62 on Reader Service Card

BATTERIES ARE EFFICIENT

Move your electric trucks efficiently with C & D Slyver-Clad batteries, featuring Hi-Impac covers and containers. Circle the number.

Circle 18 on Reader Service Card

ECONOMICAL LIFT TRUCK

Measure dollar-saving differences in horsepower, percent, inches, and hours with the Allis-Chalmers 2,000-lb FT 20 fork lift truck. Send for more information.

Circle 2 on Reader Service Card

TIPS ON CONVEYORS

Send for information on the latest Rapistan conveying equipment, plus information on applications, suggestions, and tips. Circle this number.

Circle 11 on Reader Service Card

DUMPERS TO FIT JOB

Get a Tubar Dumper to fit your exact job need. They solve handling problems, cut operating and labor costs, and speed production. Circle number for more information.

Circle 85 on Reader Service Card

COVERS OLD MARKINGS

Block out old stenciling and markings with Stencil-Kover. This quick-drying, waterproof compound is sprayed on. Find out more from Reynolds Ink Inc.

Circle 76 on Reader Service Card

UPS WAREHOUSE CAPACITY

Increase your warehouse capacity as much as 50% with a Raymond narrow aisle electric tiering truck. Find out how to reduce 10 and 12-ft aisles to 6-ft width.

Circle 75 on Reader Service Card

GOOD VISIBILITY TRUCKS

Drivers will go for the low cowl with wide visibility and deep-cushioned seat with easy accessibility on Yale gas trucks. Circle number for more information.

Circle 90 on Reader Service Card

1-MAN BARREL LIFT

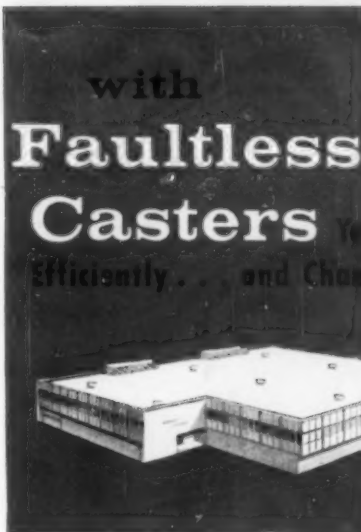
You need only one man to handle liquid drum loads up to 1,000 lb. A barrel lift allows him to raise, rotate, transport, tilt, and drain 55 gallon drums. Ask the Morse Manufacturing Co.

Circle 66 on Reader Service Card

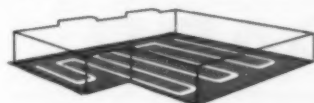
LIFT IS VERSATILE

Here's a portable lift that does these things with ease: stacks to 130 inches, handles in process speedily, handles dies safely, efficiently positions work, simplifies shipping and receiving. Send for information from Hartman Metal Fabricators.

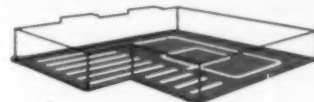
Circle 44 on Reader Service Card



Today, your production line can move in a serpentine pattern



... tomorrow it can be changed to a straight-line or circular flow



A fluid Faultless Castered production line is quickly reshaped as needed ... to suit new products, design changes, retooling, time-and-motion study recommendations, etc. Also Faultless Castered trucks, dollies, racks, carts can transport your manufactured products outdoors for yard stocking. Whatever your production line load requirements, floor surfaces, space limitations, Faultless engineers the precision casters to meet your specific requirements and limitations.

ASK YOUR DISTRIBUTOR: Your nearby Faultless Industrial Distributor maintains a substantial inventory of Faultless Casters for immediate delivery. He and one of the strategically located Faultless Sales Engineers are available to work with you on every handling problem in your plant. Or write for complete information.



Faultless Caster Corp.

Evansville 7, Indiana

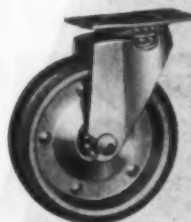
Branch Offices in principal cities; see the Yellow Pages of the telephone book under "Casters".
Canada: Stratford, Ontario

Circle 38 on Reader Service Card

GENERAL
DUTY
SERIES 100
CASTER



LIGHT
DUTY
SERIES 400
CASTER



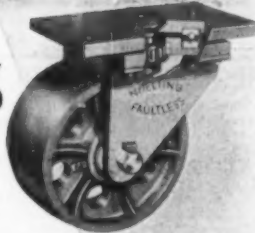
MEDIUM
DUTY
SERIES 1900
CASTER



HEAVY
DUTY
SERIES H900
CASTER



EXTRA-
HEAVY DUTY
SERIES 1300
CASTER





AERO-BOARD

Air Powered Hydraulic DOCKBOARD



SAFE, READY FOR INSTANT USE.

Nothing to lift or carry, the AERO-BOARD safely stands upright, out of the way when not in use. The operator must turn the air valve handle that releases air pressure before the board lowers into position.

Another time saving and safety feature—the van can be spotted snug against the bumper dock and the van doors opened (or closed) with the AERO-BOARD in the upright position.

Custom Engineering Service

The standard AERO-BOARD is engineered and manufactured for easy installation on docks with permanently constructed bumpers to carry a loaded 4,000 lb. capacity lift truck. The same model with a separately constructed fabricated steel bumper (see illustration at right) can be installed on concrete or wood flush docks.

If the standard model does not fit your requirements, Freightliner will custom engineer and manufacture AERO-BOARDS for your specific needs . . . Ask about this special service.

SIMPLIFIED DESIGN. Parts included in the AERO-BOARD "kit", as assembled at the factory, are adaptable to most docks without extensive dock modification.

INEXPENSIVE TO INSTALL. Kit is complete ready to install on new docks or on docks being modernized—no electrical wiring required, just mounting and air pipe connections. Simple "air-over-oil" hydraulic system raises and lowers AERO-BOARDS. . . . Power is supplied from air system which is standard on many docks.

KIT INCLUDES 57" long x 60" wide safety tread steel board with tapered front edge and guard rail, mounting plate, hydraulic cylinder and cradle, fluid reservoir tank with mounting bracket, control valve and flexible hose lines.

AERO-BOARD
\$410⁰⁰
Ready to Install



SOLD AND SERVICED BY LEADING MATERIALS HANDLING EQUIPMENT DEALERS

Write for complete specifications and name of your nearest dealer.

Manufactured by

**DEALER
INQUIRIES
INVITED**

Freightliner Corporation

Dept. 4-H, P. O. Box 3591 • Portland 8, Oregon

Circle 39 on Reader Service Card

THE EDITOR VIEWS THE NEWS

The material handling industry literally takes its products to market this year.

On June 6, 7, 8, equipment manufacturers will travel to Boston for the Material Handling Institute's New England Show. Then, in November, they'll do a repeat performance in Louisville.

In both instances, the American Material Handling Society will conduct concurrent technical sessions.

This is the year of the big experiment with everyone, sponsors, exhibitors and visitors, wondering whether it's better to have two regional shows each year, or one gigantic national event less frequently.

The success of any exposition is normally measured by attendance. Regardless of the number of visitors, you can bet that the MHI's New England show will be a success from one standpoint . . . the wealth of information it will make available to all.

If you're planning a trip East this year, try to schedule it for the month of June. More specifically, plan to be in Boston on the 6th, 7th, or 8th. We'll be there, in booth 200. Drop in to see us.

* * *

In a couple of weeks, one of the most informative material handling books ever published will come off the presses. It is the 1960-61 MATERIAL HANDLING ENGINEERING DIRECTORY AND HANDBOOK. It contains over 1000 pages of up-to-date material on types of equipment, sources of supply, industry standards and procedural guides. If you want to know more about it, drop us a line. We'll send you complete information.

* * *

Portable elevators have long been recognized as valuable machines in storage areas. In our next issue, we'll tell you how they can be put to use on production lines.

John D. Velardo

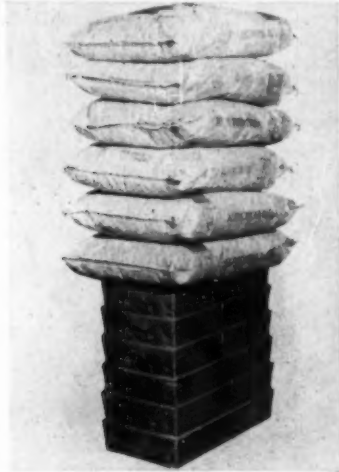
EDITOR

MATERIAL HANDLING ILLUSTRATED

WHAT'S NEW IN EQUIPMENT

Super Strong Boxes

A new chemical process hardens fibre-board so that boxes weighing less than 4 lb each can support 600 lb without distortion. These boxes are extremely rigid, fireproof, and will not tarnish copper,



Circle 100 on Reader Service Card

brass, or other metals. Custom and standard sizes come in three styles, and capacities range from 1/100 cu ft to 5 cu ft. Sizes range from 2½ x 4 x 1½ inches to 24 x 30 x 15 inches.

Beacon Boxes Inc.

Bend Conduit Easily

A new line of conduit benders will enable you easily to hand bend electrical metallic tubing, rigid steel, and rigid aluminum conduit. One model bends all



Circle 101 on Reader Service Card

three standard types of conduit. Features: outriggers on hook to stabilize tool and give workers solid footing, extended foot treadle for better leverage, degree scale for perfect offsets and saddles, clear symbols on each side of tool, light weight, skid proof hook, and unbreakable alloy malleable iron for safety.

Appleton Electric Co.

Machine Speeds Sealing

A table model electric gummed tape machine measures, moistens, cuts, and delivers tape in a fraction of a second. Better Pack 555 speeds sealing, handles

mixed carton sizes rapidly, reduces fatigue, saves tape, and activates glue for secure closure. The machine has length selector keys to deliver the right length of tape. Length selector scales are 6 to 36 inches or 15 to 45 inches, but a release key per-



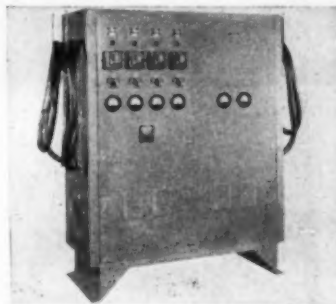
Circle 102 on Reader Service Card

mits shorter or greater lengths as required. Repeat length indicators can fit over the keys for runs of same size cartons. A built-in heater keeps water at the right temperature for the glue.

Better Packages Inc.

Compact Battery Charger

The new Portapak charges motorized hand and rider-type lift truck batteries in seven to eight hours or less. The dc



Circle 103 on Reader Service Card

power unit is sufficiently compact to be carried easily by a lift truck. Charging is automatic. After the batteries are connected to the charging cable, the time clock knob is turned to 3-hour charge position. A relay senses battery voltage at 2.37 V per cell, around ¾ of the charge. A relay then cuts in the time clock for a final three hours of charging. The Portapak comes in generator capacities of 3 to 15 KW.

Motor Generator Corp.

V Groove In Wheels

V grooved wheel casters operate well on inverted angle track in mechanized production lines or blind alley operations, such as ovens and retorts. The casters also are recommended for conventional use

when floors are uneven, pitted, or cluttered. The casters come in matching swivel and rigid types, 750 lb capacity, of cast



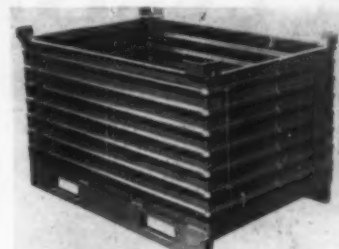
Circle 104 on Reader Service Card

semi-steel with 6 x 2 inch wheels. Swivel type has 2 separate ball bearing raceways for even load distribution and has zerk type lubrication fitting. The casters also come with wheels having pressure lubricated cage type roller bearings or lifetime lubricated double shielded ball bearings.

Nutting Truck and Caster Co.

Steel Box For Bulk

A standard size all-corrugated steel box handles parts, scrap, forgings, castings, or bulk materials in plants or warehouses. The dimensions: 33 x 48 x 24 inches. The boxes are all steel welded with square



Circle 105 on Reader Service Card

corners and stacking pockets. They feature four-way entry plus fork slots side for rotary dumping.

Palmer-Shile Co.

Features Low Headroom

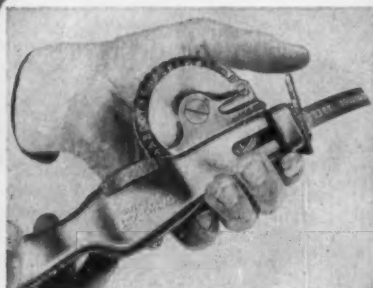
A line of Type F3 electric hoists features extremely low head room. Hoists



Circle 106 on Reader Service Card

Circle 33 on Reader Service Card

EMBOSSSED LABELS MADE ON-THE-SPOT



WITH THE NEW
DYMO-MITE
HAND EMBOSSING
MACHINE-34.95

A NEW CONCEPT IN IDENTIFICATION SYSTEMS

For plant, office, field and factory . . . you can now make your own labels right "on-the-spot" just where and when you need them. The DYMO-MITE embosses raised white letters on a variety of colored, pressure-sensitive vinyl tapes . . . as easily as dialing a telephone . . . and best of all they cost just pennies a label. Use on tools, parts bins, switch boxes, shelves, controls, lockers, anywhere, everywhere, indoors or out . . . applications limited only to the scope of YOUR own imagination!

See your local distributor or—

Write today for
FREE catalog
and samples to:

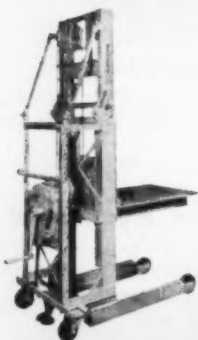
DYMO
CORPORATION

2546 Tenth Street, Berkeley 10, Calif.

BARRETT SYSTEMS

Engineered to your job

TTR Sit-Down Rider
fork hi-lift for all
types of industrial
use. Short turning
radius. Cap. 1000,
1500, 2000 lb.



Hand and electric portable elevators to stack material "ceiling high"—save valuable floor space for productive operations.

HX Hand Pallet Truck,
with advanced features. 2000-, 2500-,
3000-lb. cap.; other
models in 4000- and
6000-lb. cap.



PXG Palletex, lift truck
with power up and
power down. Cap. to
6000 lb.

WRITE FOR DESCRIPTIVE LITERATURE

Whatever your materials handling requirements may be, Barrett can do the job efficiently, economically.

BARRETT

Materials handling engineers for half a century

BARRETT-CRAVENS COMPANY
842 Dundee Road, Northbrook, Illinois
Representatives in All Principal Cities

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WHAT'S NEW IN EQUIPMENT

come in capacities of 1½ through 7½ tons. Motor and control box are weather-tight. Power comes from a 7½ hp motor with weatherproof, magnetic brake of the multiple disc type. A four-position, weight-operated limit switch protects hoist and operator. Extra large diameter cable drums increase lift and reduce bending fatigue in the cable.

Robbins & Myers Inc.

Handles Skids, Pallets

The BT skid and pallet handling truck is available in a 2400 or 4400 pound capacity model. You can get 36, 42, or 48



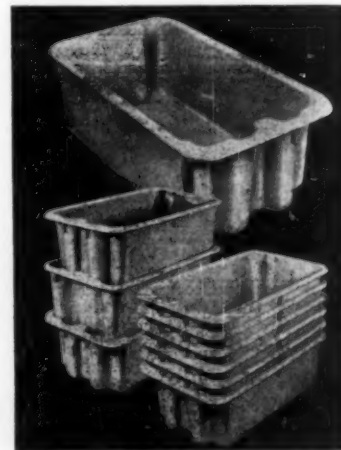
Circle 107 on Reader Service Card

inch forks that lower to 3¼ inches and raise to 8¼ inches. Fork widths are 20½ and 27 inches. The wheels roll on fully encased ball bearings and pivot 90 degrees in both directions.

Industrial Handling
Equipment Co., Inc.

Tote Pans For Food

Stack-n-Nest tote pans have been adapted for food processing plants, produce markets, restaurants, and any business which handles quantities of raw



Circle 108 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

foods. Made of a new material called PolyLewton, the tote pans have a glass-like finish, no corners or seams, no pores or crazes to collect food. They're resistant to corrosion. The pans hold up to 50 lb, but weigh only 3 $\frac{3}{4}$ lb. Top rim finger grip gives secure hold. The pans stack neatly and securely, with nesting nibs to prevent excessive binding.

G. B. Lewis Co.

Portable Battery Chargers

You can wheel these battery chargers on the floor or mount them on a wall. They will charge the entire battery, any



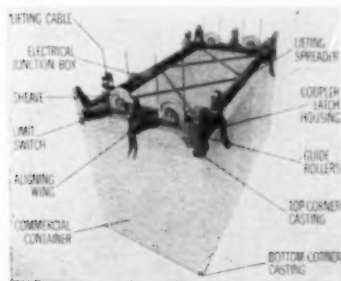
Circle 109 on Reader Service Card

one cell, or any group of cells within the battery up to the rated capacity of the charger. The chargers, called Variable Voltage Rectifiers (VVR), are equipped with silicon rectifying diodes for use on batteries up to 32 lead-acid cells or 50 alkaline cells.

Exide Industrial Div.,
The Electric Storage Battery Co.

Containerization Made Easy

The National Speedloader System offers standardization for marine, land, and air shipping. You specify the hardware on



Circle 110 on Reader Service Card

containers, vehicles, and handling equipment of your choice. Automatically operated by electricity, hydraulics, or pneumatics. The fittings include top and bottom corner castings for containers, a crane lifting spreader with coupler latches to interlock container castings, an electric safety interlock system, aligning

(Continued on page 22)

Built for rugged service...

2 NEW lightweight floor trucks

Here are 2 new trucks that feature corrosion-free properties plus strength without weight . . . up to 40% lighter than steel. This permits use in almost any industry plus larger loads and more trips with less energy, less manpower.

Nutting Structo-Lite Trucks are made of heat treated aluminum alloy, the same type used for heavy duty structures . . . non-sparking for safety where explosive material is used, non-toxic and resistant to attack by food and unaffected by most chemicals, and many acids and alkalis. Exclusive Nutting unitized frame construction holds proper alignment throughout unusual loads and abuse. New 3 bearing "friction-free" casters for easiest possible maneuvering.



Nutting Fiberglass Box Trucks weigh as little as 70 lbs. (steel trucks of the same size, 120 lbs.) Chrome impregnated fiberglass is impervious to steam, oil and mild acids and alkalis — won't crack or corrode — withstands temperatures from -40°F to 212°F, even up to 250°F for short exposures. Smooth inside with rounded corners for easy cleaning.

These light, but extra rugged trucks are designed to increase your handling efficiency and to save you money — based on lighter weight, longer life, reduced maintenance and less downtime. For full information send the coupon today.

Nutting

TRUCK AND CASTER CO.

152 Division Street • Faribault, Minnesota



Send Structo-Lite aluminum truck literature
Send fiberglass truck literature


NAME _____

COMPANY NAME _____

ADDRESS _____

CITY _____ STATE _____

Circle 70 on Reader Service Card



B.F. Goodrich

Lift truck stacks packaged grocery items in Publix warehouse. Loads run up to 3600 lbs. Tires are B.F. Goodrich Deluxe Cushion Smooth Tread.

No tire trouble in 9 years at supermarket warehouse, thanks to B.F. Goodrich Analysis

Publix Supermarkets, Inc., operates a chain of 59 stores throughout Florida, services them all from a warehouse in Lakeland. When the warehouse was built in 1951, Publix called in the B.F. Goodrich Tire and Wheel Analysis Man to make industrial tire recommendations.

He studied the warehouse setup—floors, loads, equipment, jobs, etc. Then he advised which B.F. Goodrich industrial tires would give longest service at lowest cost—advice that was unbiased, because BFG makes a complete line of industrial tires. Publix followed his recommendations, and

today—9 years later—the company has *never* had a lift truck out of service because of tire trouble!

This case history is typical of the savings BFG Tire and Wheel Analysis Men are offering industrial tire users all over the country. Why not take advantage of this *free* B.F. Goodrich service. The TW Analysis Man knows industrial tires—knows which ones will solve your materials handling problems best. Mail the coupon below today.

A special B.F. Goodrich consulting service is available for manufacturers of materials handling equipment.

Specify B.F. Goodrich Tires when ordering new equipment



Food products arrive by freight car and tractor-trailer. Lift trucks roll on BFG tires, work 9½ hours a day, have never been down because of tire trouble in 9 years!

A FREE B.F. Goodrich TW Analysis can save you as much as 50% on industrial tires, as much as 20% on maintenance costs. Mail the coupon now.



The B.F. Goodrich Company
Dept. TW-811, Akron 18, Ohio

Please send me additional information on your free Tire and Wheel Analysis Plan.

Name

Company

Street

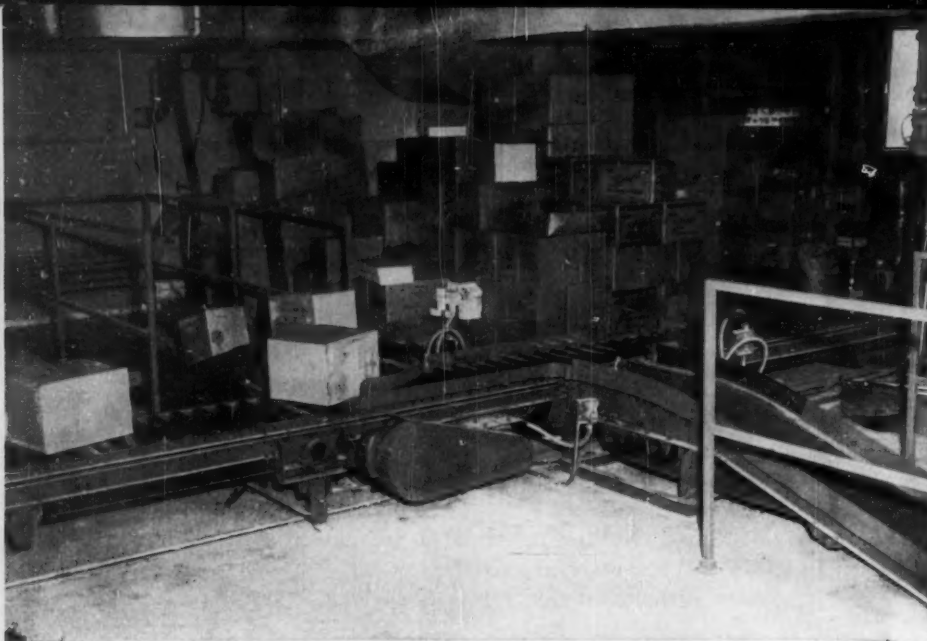
City Zone State

B.F. Goodrich *industrial tires*

APRIL 1960

Circle 42 on Reader Service Card

11



Circle 230 on Reader Service Card

GUARD RAILS surround floor openings where inclined conveyor enters or leaves the floor. Note that the chains and belts are all covered for safety. Special antibackup bars help prevent the toppling of units down the conveyor.

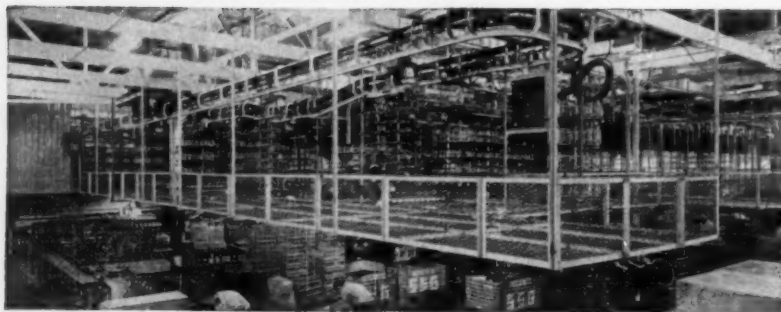


Circle 231 on Reader Service Card

POP-OUT ROLLER will prevent fingers or other objects from wedging between the roller and the belt.

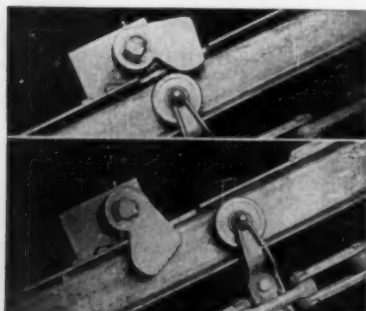
Built-in devices help you . . .

Accident-Proof Your Conveyors



Circle 232 on Reader Service Card

CONVEYOR GUARD is a proven overhead conveyor safety device. Mesh guard above protects against objects that might drop from the conveyor onto workmen. Finer mesh or sheet type guards can be used for glass, small parts.



Circle 233 on Reader Service Card

ASCENDING LOADS are kept from running backward in case of chain breakage by device shown in action.



Circle 234 on Reader Service Card

POWERED ROLLER conveyors have guards between the rolls to prevent hands from slipping through.

CONVEYORS are inherently safe. They move materials to and away from operations. There's little lifting, carrying, or wheeling. Operators need not leave their stations and walk into trouble elsewhere.

But conveyor manufacturers have made their equipment even more fool proof with special safety devices. And just recently, manufacturers and users under the sponsorship of ASME have written a safety code: the "American Standard Safety Code For Conveyors, Cableway, and Related Equipment, B20-1-1957."

Don't Skimp

The B20 Code cannot hope to cover every possible safety detail. It points out these musts if you are to have accident-proof conveyors: (1) Work with the conveyor manufacturer to be sure your conveyors have all possible safety devices built in. (2) Don't skimp on safety features to have the lowest price. (3) Study your specifications. (Insist that specifications for safety features be as clear as those for the conveyor itself.)♦♦



HOW MANY WAREHOUSES CAN YOU FIND IN YOUR PLANT?

Sometimes you can't see the warehouses for the machines. Most plants have no trouble identifying at least two areas where warehousing goes on. The first that come to mind are the receiving and shipping areas.

But how many unrecognized warehouses are you operating? It could be quite a few. When the flow of material through any plant is analyzed, build-ups of work are frequently found before and after each operation. These build-ups of material, in themselves, create warehousing problems. And, big or small, these "hidden" warehouses may be costing you more than you realize.

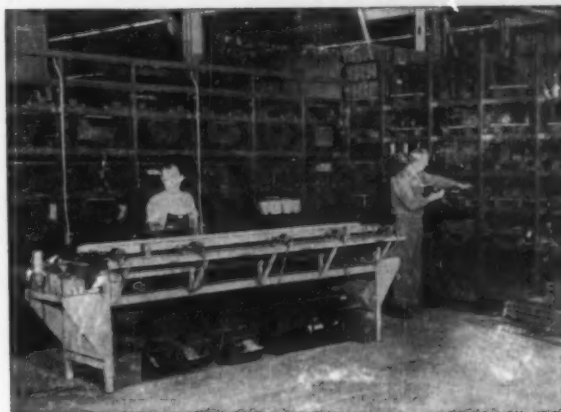
In almost every plant, these little warehouses are likely to be out of phase with where they should be, and how big they should be for maximum flow efficiency. Sometimes the most practical arrangement is a simple storage rack. Other times overhead storage on Rapistan-Keystone trolley conveyor is the answer. Sometimes greatest efficiency can be gained with a more complex live storage Flow Rack equipped with mechanical indexing and selection devices.

In any case, by streamlining and simplifying the operation of your hidden warehouses, you can gain better utilization of space and control of inventory first-in-first-out use of materials, cut down on spoilage and damage costs, and improve your entire handling pattern.

Rapistan engineers specialize in recognizing these less obvious areas, and developing modern storage conveyors for just such problems. They've developed some new concepts of "stop-and-go" storage that have brightened the profit picture for thousands of manufacturers, as well as for wholesalers and retailers. If the "hidden warehouse" in your plant is not as efficient as the rest of your operations, or if you just suspect that it isn't, circle No. 10 on the Reader Service Card.



RAPISTAN FLOW RACK IS THE HEART of this mechanized selection system used in the shipping department of one of the world's largest record manufacturing plants. A remote-controlled belt conveyor takes cartons from any hatch in the rack, conveys them to a checking station en route to the shipping dock.



WAREHOUSING OF PARTS AND COMPONENTS goes on right at the point of manufacture in this plant. Flow Rack, positioned at the perimeter of the work area, holds the optimum quantity of all parts used here. It's loaded from the rear, without interfering with production.

WRITE FOR THIS HANDBOOK of materials handling ideas, describing all the latest Rapistan conveying equipment, plus lots of application information, suggestions and tips for conveyor system engineering. Circle No. 11 on the Reader Service Card.



New, APC® "Pressure"-Sensing Conveyor Ends Carton Pile-ups



Here is the new, safe way to accumulate cartoned goods under power in processing, warehousing and shipping operations. Rapistan's new APC conveyor reduces carton line pressure almost to the vanishing point, eliminates breakage and damage to cartons and contents due to line pressure. In this photo, the conveyor belt is running, but pressure between cartons is so low the balloons are perfectly safe.



Circle No. 12 on the Reader Service Card for Bulletin 1200 illustrating new uses of APC pressure-sensing conveyor.

Rapistan®

CONVEYING EQUIPMENT

The RAPIDS-STANDARD CO., Inc.

721 Rapistan Building, Grand Rapids 2, Michigan



Circle 235 on Reader Service Card

NARROW-AISLE PLATFORM TRUCK doubles as a work positioner by placing stock on work platforms. These trucks have short bodies mounted over one or two drive wheels. They're designed for maneuvering in close quarters.

Platform Truck

POWERED PLATFORM trucks are basic to material handling. Whether for handling skid loads or dies, they're an economical way to simplify material movement.

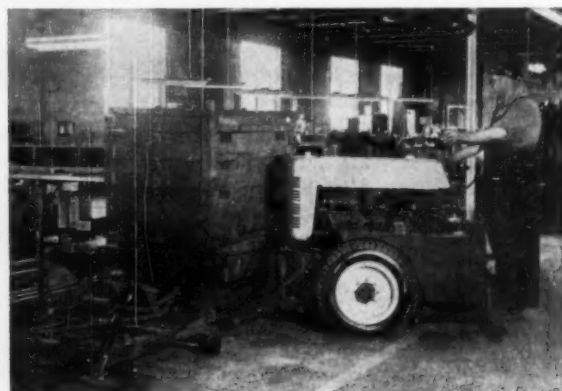
Types include high-lift rider, low-lift rider, high-lift walkie, narrow-aisle stacker, fixed platform burden carrier, and die handler.

Primary design characteristic is the location of load carrying (or trail) wheels ahead of the load center line.



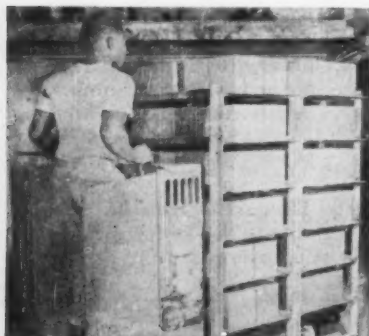
Circle 236 on Reader Service Card

LOW LIFT WALKIE type platform truck can easily handle skid loads of crated materials. The short front end with new gear drive gives it short turning radius.



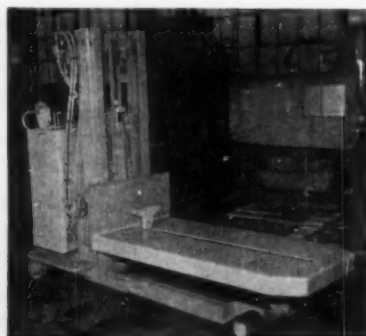
Circle 237 on Reader Service Card

ARTICULATED PLATFORM aids in close quarter work. Pneumatic tire truck also works outdoors. This is a gas powered, driver stand-up model, has low lift.



Circle 238 on Reader Service Card

RIDER TYPE STACKER platform truck easily handles a rack full of concrete blocks during manufacture. Unit is a narrow aisle low lift type.



Circle 239 on Reader Service Card

WALKIE PLATFORM truck has a hydraulic pusher to shove loads off the platform. This expedites unloading of heavy or awkward size parts.



Circle 240 on Reader Service Card

OPERATOR rides walkie's platform in stockpiling operation. He guides the truck with extra set of controls. Regular ones are on steering handle.

-Still In Style

These wheels are mounted in outriggers positioned under the platform. This prevents concentration of truck weight on the trail wheels which carry the weight of the load and only a small part of the truck-load. With the weight of the truck and load spread over a wider area than with a counterbalanced design, the platform truck requires less floor capacity for operation.

Most platform trucks are electric powered. But there are a number of models powered by gasoline or LP-Gas. They're especially useful for long hauls and steep grades. With pneumatic tires, they can perform indoors and out.

The platform truck usually has a partner, the skid. Although this combination is used in many situations, the two most common are: (1) Handling loads of parts between manufacturing operations (calls for a low-lift truck and skid box); (2) stacking loads, either onto racks or onto each other (calls for a high-lift truck and skid). ♦♦



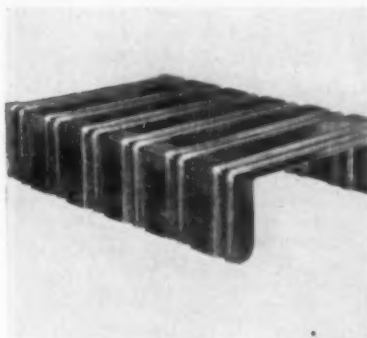
Circle 242 on Reader Service Card

RIDER PLATFORM rises as the driver controls the work platform. Truck, suited for order picking, has 2,000-lb capacity, and lifts 10 feet.



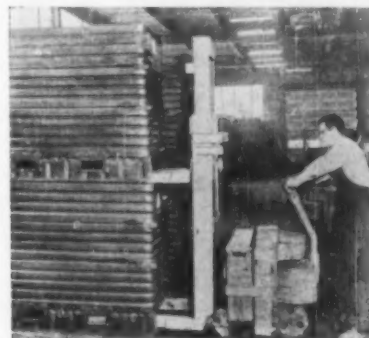
Circle 241 on Reader Service Card

HIGH STACKING WALKIE platform truck places a skid load of merchandise on racks for stock picking. Controls for the unit are at the head of the steering handle. Note stabilizing casters beside drive wheel.



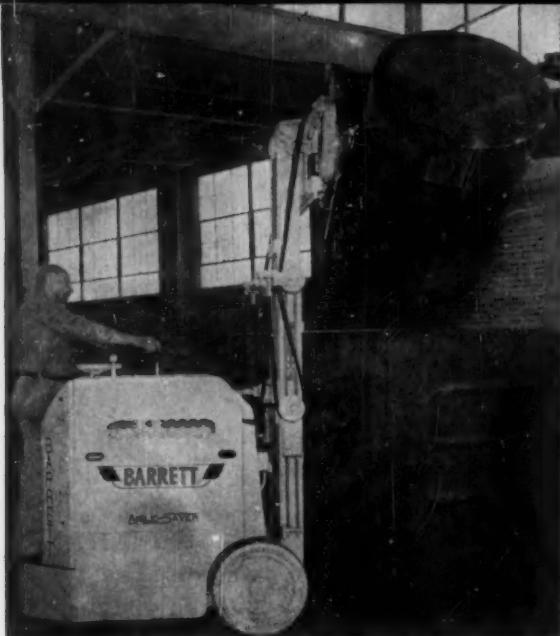
Circle 243 on Reader Service Card

STEEL SKIDS have varied underclearances to match platform trucks. Channels added to runners give flat bearing surface, protect the floor.



Circle 244 on Reader Service Card

STEEL SKID BOXES are stacked upon each other by a high-lift platform truck which positions easily. Boxes can be stacked full or empty.



Circle 245 on Reader Service Card

ROLLOVER and hydraulic clamp attachment team up to side dump this container. Side dumping takes more room than front dumping, but keeps material away from truck body, important with abrasive material.



Circle 246 on Reader Service Card

FRONT DUMPER makes easy work of dumping scrap into a railroad car. This drop-bottom box locks at the top of the fork lift truck mast at completion of the lift. You lower the forks to drop open the bottom of the box.

6 Ways to Dump Materials

You can get a dumping method to suit required speed and volume.



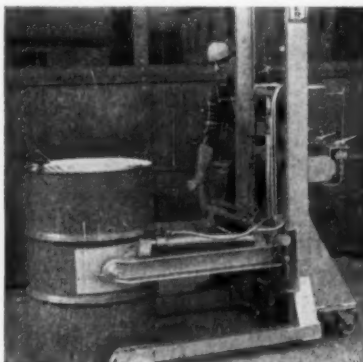
Circle 247 on Reader Service Card

ELECTRIC HOIST lifts a dump box for stacking in a storage area. Boxes have lugs for crane pickup, can be suspended at either two or three points. Three are an advantage because they give you better control of the dumping.



Circle 248 on Reader Service Card

HOPPER, only 30" wide, works well in narrow aisles. When you unlock the hopper, it automatically rolls forward, dumps, then rights itself.



Circle 249 on Reader Service Card

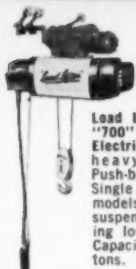
HYDRAULIC LIFT is hand powered. It's useful for carefully controlled dumping. Here the worker is tightening a grab on the drum.



Circle 250 on Reader Service Card

DRUM TILT is a useful crane attachment. The workman closely controls dumping 55-gallon drum by working the chain-driven gear.

CUT YOUR COSTS WITH THESE PROBLEM SOLVERS



Load Lifter Series "700" Wire Rope Electric Hoist. Fast, heavy-duty type. Push-button control. Single and two-speed models. All types of suspension, including low headroom. Capacities: $\frac{1}{2}$ to 15 tons.



Load Lifter Series "600" Wire Rope Electric Hoist. A powerful production helper. Push-button control. Single and two-speed models. All standard suspensions. Capacities: $\frac{1}{2}$ ton and 1 ton.



Push Button Budget Electric Hoist. Portable. For regular hoisting service. Two fully enclosed automatic brakes. Provides fast, accurate spotting action. A $\frac{1}{2}$ -ton load can be lifted at 34 FPM. Hook suspension. Capacities: $\frac{1}{4}$ to 2 tons.



Pull Cord Budget Electric Hoist. Ideal for intermittent service. Has efficient gearing and two brakes. Uses little electricity. Comes ready to hang up, plug in, and use. AC, DC, and 12-volt battery-operated models. Hook suspension. Capacities: $\frac{1}{4}$ to 2 tons.



Load Lifter Air Hoist. Wire rope load line. High starting torque and smooth operation with 5-cylinder radial air motor. Infinitely variable speed control to 37 FPM. Throttle control available. All standard suspensions. Capacities: 1 to 15 tons.



Budget Air Hoist. Link and roller chain types. Pendant cord control. Speeds infinitely variable to 75 FPM. Rigid mount push trolley available. Safety hooks standard. Capacities: $\frac{1}{4}$, $\frac{1}{2}$ and 1 ton.



Tugit Lever-Operated Hoist. Light, compact, portable. Easy to operate even in close quarters at any angle. Fine for maintenance. Capacities: $\frac{1}{4}$ to 3 tons.



Budget Differential Hoist. Low-priced lifting tool for occasional use where high efficiency isn't essential. Light and compact. Capacities: $\frac{1}{4}$, $\frac{1}{2}$ and 1 ton.



Budget Roller Chain Block. Spur-gear efficiency combined with lightness. 45 lb. pull on hand chain lifts $\frac{1}{2}$ ton. Capacities: $\frac{1}{4}$ to 2 tons.



Budget Aluminum Chain Block. Light in weight but tough. Can be carried to the job, hung up and operated by one man. Spark and corrosion resistant models. Capacities: $\frac{1}{4}$ to 2 tons.



Budget Aluminum Hi-Cap Chain Block. Combine light weight with strength and tops in operating efficiency. Capacities: 3 to 10 tons.

Budget Aluminum Army Type Chain Block. Integral push and hand-gear trolleys are adjustable to fit I-beams in a number of sizes. Low headroom design. Capacities: $\frac{1}{4}$ to 10 tons.



I-beam Trolleys. Attach to top hook of hoist to add travelability. Operate on bearing equipped wheels. Geared type available. Capacities: to 20 tons.



Budget Cord Reel. Supplies current to hoists and portable tools with polyphase motors up to $\frac{1}{2}$ hp. — single phase to $\frac{1}{2}$ hp. Cable reels off in any direction.



MMM Load Scale. Permits weighing loads while in suspension. Saves handling time and costs. Guards against overloading lifting equipment. Capacities: $\frac{1}{4}$ to 2 $\frac{1}{2}$ tons.



Budget Cord Conductor Trolley. Use any number to hold aloft and travel any hoist conductor cord or air hose. Fit 8" to 18" I-beams.



Gantry "A" Frame. For low-cost mobile lifting service. Caster equipped. Shipped knocked down. Easy to assemble. Capacities: 1 and 2 tons.



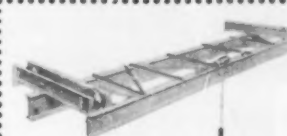
Budget Crane Assemblies. Top-running, underhung and jib types. Packaged components for erection on the job site. Capacities: to 6 tons, spans to 30 feet.



Budget Bridge Drive. Converts hand-operated cranes up to 10 tons to "walking speed" electrical operation at low cost. No drilling or machining. Push-button control.



Load Lifter Jib Cranes. Revolve 360° on ball and roller bearings. No binding. Types that bolt to floor serve 550 sq. ft. Others set in concrete serve up to 1500 sq. ft. Capacities: $\frac{1}{4}$ to 5 tons.



Load Lifter Bridge Crane. Electrically operated underhung type with single girder. Spans to 50 feet. Capacities: $\frac{1}{2}$ to 10 tons. Other Load Lifter Cranes to 50 tons, spans to 60 feet.

TRADE NAMES SHAW-BOX, LOAD LIFTER, BUDGIT, HI-CAP AND TUGIT ARE REGISTERED TRADEMARKS

HANDLE MATERIALS MORE EFFICIENTLY and you save time and manpower, increase the safety level and output of your plant, and cut unit costs.

Whatever your overhead load-handling problem, MMM offers by far the most complete variety of modern hoists, cranes and auxiliary equipment available anywhere.

CALL ON YOUR NEARBY SHAW-BOX DISTRIBUTOR for experienced help in selecting the load handling devices that will serve best and save the most in your particular operation. He maintains ample stocks to give you prompt delivery. So let him contribute to the smooth, economical production that is essential to broaden your profit margin. His service is as close as your telephone. Phone him for complete information or write to us for bulletins.



OVERHEAD LOAD HANDLING EQUIPMENT Products of **MANNING, MAXWELL & MOORE, INC.**

Shaw-Box Crane & Hoist Division • Muskegon, Michigan
In Canada: Manning, Maxwell & Moore of Canada, Ltd., Galt, Ontario

Circle 62 on Reader Service Card



Circle 251 on Reader Service Card

PRESSURE SENSITIVE tape is used a great deal for lane marking inside plants. The tapes come in colors, are greaseproof. They are easy to put down accurately by simple applicators. You'll find not every tape, however, will stick to every surface, so it's usually a good idea for you to run some tests.



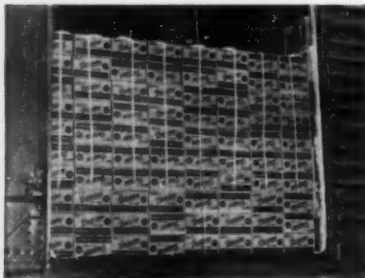
Circle 252 on Reader Service Card

REINFORCED pressure sensitive tape is useful for closing cartons. An additional benefit: it will strengthen the carton and it's easy to apply.



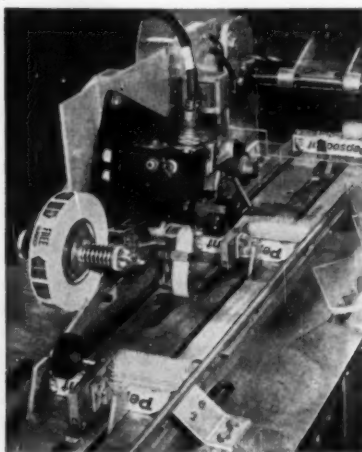
Circle 253 on Reader Service Card

UNITIZING a load on a pallet is quick and cheap. The tape enables odd-shape products to handle easily. And the loads will stack securely.



Circle 254 on Reader Service Card

VERSATILE pressure sensitive tape braces load inside a rail car. Load will not shift. However, it will float sufficiently to absorb shock.



Circle 255 on Reader Service Card

AUTOMATIC dispenser bundles different products into sets or the same item into units. There are many different kinds of dispensers.

Stick With PST—It's Versatile

PRESSURE SENSITIVE tapes have come a long way from the days when they were used almost entirely for masking. Today they seal boxes and bags, reinforce cartons, unitize palletloads, secure loads in boxcars, and bundle loose parts for shipment. They protect finished surfaces, affix labels, or color code. They are even used to mark

traffic lanes.

There are four types of pressure sensitive tapes, classified by backing construction:

- Paper. Usually high grade kraft from 30- to 70-lb weight, flat or creped.
- Cloth. Cotton, nylon, rayon, all stronger than paper.
- Filament. Strands of glass, nylon, or rayon. high tensile strengths of 75 to 500 lb per inch-width, tear resistant.
- Film. Cellophane, polyethylene, Teflon, other plastics.

Most pressure sensitive adhesives are a bonding agent with a resin and plasticizer. Don't judge a tape's sticking strength by how sticky it feels. Some that feel hardly tacky have tremendous holding power.

There is a best tape for each of your needs. Don't guess. Ask your supplier to help you select. He knows what each tape can do, and what other users have found.

There are many ways to use pressure sensitive tape to seal cartons for shipping. You can find out how from Rule 41 of the Uniform Freight Classification. ♦♦

Circle 90 on Reader Service Card

Yale gas trucks

with fluid coupling transmission are tops with operators and planners. Operators go for the low cowl with its wide visibility and greater safety, and for the deep-cushioned seat with easy accessibility from both sides. They like the finger-tip controls for hoist, tilt and direction. Planners find that long clutch life (due to fluid coupling, which eliminates metal-to-metal contact in transmitting power to the drive wheels) cuts down-time and maintenance costs. Capacities, 2000-3000 lbs.

For full information, call your Yale representative or send for free brochure #5003E to The Yale & Towne Manufacturing Co., Materials Handling Div., Phila. 15, Pa., Dept. GT6.

YALE
INDUSTRIAL LIFT TRUCKS
TRACTOR SHOVELS • HOISTS
YALE & TOWNE



Yale Materials Handling Division, a division of The Yale & Towne Manufacturing Co. Manufacturing Plants: Philadelphia, Pa., San Leandro, Calif., Forrest City, Ark. Products: Gasoline, Electric, Diesel, LP-Gas Industrial Lift Trucks • Worksavers • Warehouse • Hand Trucks • Industrial Tractor Shovels • Hand, Air, Electric Hoists

GRIPPER[®] woven wire SLINGS

here's SAFETY for any lifting job

No weak links to break . . . no thin strands to snap . . . no soft core to rot . . . nothing to tear suddenly and drop the load. That's the safety story of Gripper Slings. Spiral wire construction also gives the Gripper Sling complete flexibility to hold any sized load in a firm, yet gentle, grip. And, Gripper Sling's smooth, broad bearing surface won't cut or score stock . . . practically eliminates load damage.

Gripper Slings, pretested to meet load specifications are available in standard lengths and widths with capacities up to 100,000 lbs. Special sizes, alloys or Neoprene or PVC covered slings available. Write for FREE CATALOG and name of your nearest materials handling distributor.



The Cambridge Wire Cloth Co.

Department AF • Cambridge 4, Md.



Circle 20 on Reader Service Card

WHAT'S NEW IN

USEFUL LITERATURE

Compact V-Belt Drives

Dyna-V is the company's line of V-belt drives, engineered to utilize the full performance possibilities of modern synthetic fibres, modern synthetic rubbers, and modern alloy metals. Company says that the compact Dyna-V is capable of handling up to three times as much horsepower in a given space. Horsepower ca-

capacity is increased to the point where cross section areas are reduced nearly 50%—with no loss in the life expectancy of the belts. Narrower belt top widths team up with narrower sheave grooves to create the compactness. Bulletin A695A gives full details.

Dodge Manufacturing Corp.

Circle 200 on Reader Service Card

Only **B & P** MAGNESIUM DOCKBOARDS have all these advantages

EXCLUSIVE RUGGED FORGED ENDS ON ONE-PIECE CURB

FULL LENGTH HAND-GRIP FOR SAFE FAST HANDLING

YELLOW SAFETY LANE MARKINGS ON ALL BOARDS

HEAT TREATMENT AFTER WELDING FOR LONGER LIFE

- AND MANY OTHER IMPORTANT CONSTRUCTION FEATURES THAT WILL HELP CUT YOUR LOADING DOCK COSTS!

Compare the B & P Dockboard features before you place your next order. Write today for the fact-packed B & P Dockboard folder!

CO-MH-2



BROOKS & PERKINS, Inc.

1922 WEST FORT STREET • DETROIT 16, MICHIGAN

AMERICA'S LARGEST MANUFACTURER OF MAGNESIUM ASSEMBLIES

Circle 14 on Reader Service Card

Synthetic Slings

Amco slings, made of nylon, dacron, or polypropylene, are offered in five styles with three types of hardware for various applications. Softness of the synthetic fibres permits highly polished surfaces, machined, or painted finishes, and delicate assemblies to be moved without marring, scratching, or denting. The sling is lightweight, conforms to any shape.

American Mfg. Co., Inc.

Circle 201 on Reader Service Card

Describes Scale Line

Full line of Toledo industrial scales is laid out in a broadside. It describes the wide selection, including portable, bench, floor, built-in, motor truck, counting, net weight packing, mail, and parcel post scales. Specifications and capacities are listed.

Toledo Scale Corp.

Circle 202 on Reader Service Card

Space Saving System

You'll learn how a leading manufacturer of meters, feeders, and controls developed an unusual method of handling 23,000 different items by storing 16 ft high in aisles only 5½ ft wide. He gained 32,000 cu ft of stockroom space. Get the facts in a case history bulletin.

Lewis-Shepard Products Inc.

Circle 203 on Reader Service Card

Kit of Ideas

A mobile storage idea kit describes a technique for adding from 30 to 70 percent more storage without adding floor space. It shows how to decrease the number of aisles you need, how to convert aisles to storage space.

Mobile Storage Div.,

Dolin Metal Products, Inc.

Circle 204 on Reader Service Card

The Advantages of Padded Bags

A pocket-size manual describes Jiffy padded shipping bags in detail, and tells you how you can use them. These waterproof kraft bags have cushioning inside—ideal for products from books to instruments, whether you ship by mail or other methods. They come in sizes and shapes for all uses.

Jiffy Mfg. Co.

Circle 205 on Reader Service Card

Fork Lift Truck

Model 424A extends to a maximum length of 144 inches. Complete specifications are listed, along with similar details on Models 220A, 224A, 320A, 324A, and 420A. Specially engineered motors, heavy duty drive unit, magnetic controller, automotive type steering, hydraulic lift and tilt, positive action brakes, and welded steel frame are among features.

Wright-Hibbard Industrial Truck Co.

Circle 206 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

Shelving Line Shown

Bulletin B-40 has 8 pages of information about the T line of boltless steel shelving. Six styles of the open and closed types of plain and ledge shelving are illustrated. Other shelving equipment—drawer case units, service counters, tool storage racks—are also covered.

Penco Div., Alan Wood Steel Co.
Circle 207 on Reader Service Card

Push-Button Trailer Loading

Five methods are described in Catalog W-95 in which you can automate loads in and out of van truck and trailer bodies. How? By the addition of the Watson-DeWitt Moto-Vator powered floor conveyor kit. Models cover a variety of conditions, from general cargo to special pallet and unitized loads.

H. S. Watson Co.
Circle 208 on Reader Service Card

Slings for Fast, Safe And Easy Lifts

Whatever the size or shape of the load you handle, company says its Gripper Slings can reduce load damage in production or shipping. And provide greater safety for load and operator, cut rigging, and unhitching time, and eliminate the need for two-legged slings. Standard lengths and widths with capacities up to 100,000 lb. Special sizes and corrosion resistant alloys available on request.

The Cambridge Wire Cloth Co.
Circle 209 on Reader Service Card

Zip-Tape Samples

A ready-reference brochure on Zip-Tape includes samples in a complete range of colors and gages. It gives size, type, and lineal inches to the pound for each of the standard Zip-Tapes available. Also contains package design ideas to make packages easy to open, increase sale of multiple packs, color code, etc. Over 5,000 miles of Zip-Tape are peeled off every day just on cigarettes and gum packages.

The Dobeckman Co.
Circle 210 on Reader Service Card

Low Headroom Hoists

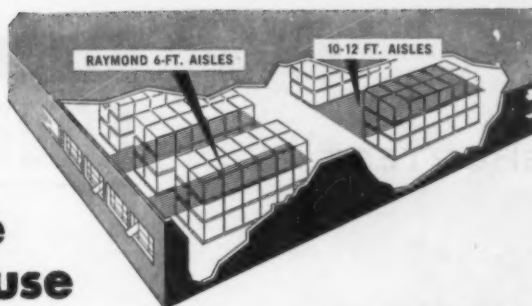
You're invited to "take it up" with a bulletin on Type F wire rope hoists. Get details on the low headroom, trolley suspension, components, and four pages of specifications.

Robbins & Myers Inc.
Circle 211 on Reader Service Card

Heavy-Duty Gas Trucks

Five new gasoline powered fork trucks featuring balanced design for efficiency, maneuverability, speed, and operation are described in individual bulletins. They cover vehicles in 2,000, 3,000, 4,000, 5,000, and 6,000 lb capacities. Each describes and illustrates the respective heavy-duty truck.

Baker Industrial Trucks
Div. of Otis Elevator Co.
Circle 212 on Reader Service Card



**Increase
warehouse
capacity . . . as much as 50%**

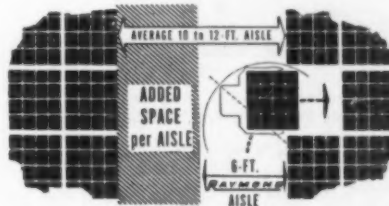
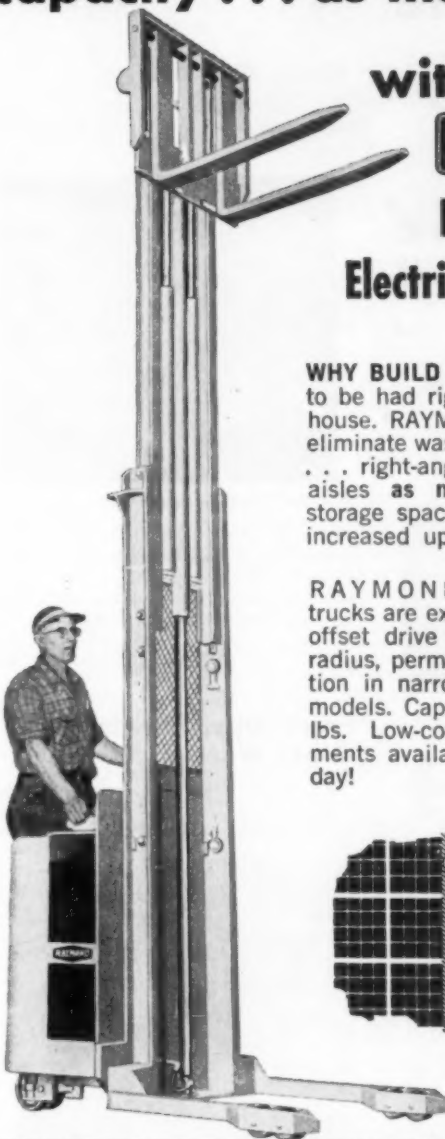
with



**NARROW AISLE
Electric Tiering Trucks**

WHY BUILD OR RENT! There's space to be had right in your present warehouse. RAYMOND narrow aisle trucks eliminate wasteful 10 and 12 foot aisles . . . right-angle tier pallet loads from aisles as narrow as 6 feet! More storage space is gained . . . capacity increased up to 50%.

RAYMOND electric straddle type trucks are extremely compact, have an offset drive wheel with 200° turning radius, permitting close-quarter operation in narrow aisles. 12 and 24 volt models. Capacities: 2,000, 3,000, 4,000 lbs. Low-cost lease/rental arrangements available. Send for bulletin today!



The RAYMOND CORPORATION

30108 Madison St., Greene, N.Y.

() Please send electric truck bulletin

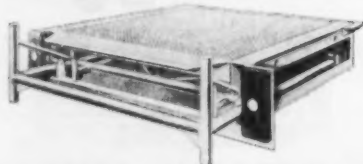
() Please send information about lease/rental plan

NAME _____	TITLE _____
COMPANY _____	
STREET _____	
CITY _____	STATE _____

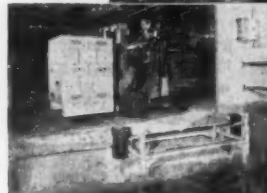
Circle 75 on Reader Service Card

SHORTEST SPAN

TO
THE
PEAK OF PROFITS



DOCKBRIDGE
AUTOMATIC LOADING RAMP



Cut Loading Time 60% . . . Keep Trucks,
Material and Personnel Piling up Dollars

"Dockbridge" costs less to buy — less to install — less to use. This fully-automatic, truck-activated, hinged loading ramp keeps your trucks rolling and producing — cuts wasted man hours. It takes trucks up to 16" above and down to 10" below dock level. No need for costly, complicated hydraulics or jury-rigged mechanisms. Only self-contained package ready to install in a prepared dock pit 17½" deep. Where pit is impractical, addition of four sturdy legs makes "Dockbridge" a free-standing unit. Adaptable to either existing dock or new construction. Three models available: 6' x 6', 6' x 8', 6' x 10'.

Write for free catalog.



**AMERICAN
DOCKBRIDGE, INC.**

239 West Oklahoma Avenue, Milwaukee 7, Wis.

Circle 6 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

Continued from Page 9
wings, and lifting cable sheaves. The company also supplies adapter castings for stacking, hatch cover castings to lock containers to the deck, and anchor castings for flatcars and truck beds.

National Malleable &
Steel Castings Co.

82-Lb Container

A light weight container of welded wire mesh holds up to 1,000 lb. It is self cleaning and fully collapsible. Dimen-



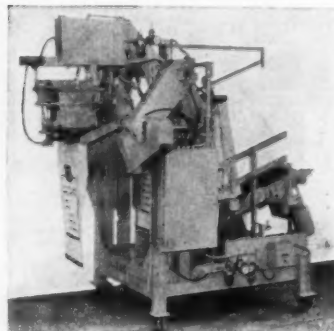
Circle 111 on Reader Service Card

sions: 28" wide x 36" long x 24" high, weighs 82 lb. Its runners permit sledding when a lift truck is not available. This container, called the Lo-Tare, can be used for truck and air freight shipments.

Cargotainer Division
Tri-State Engineering Co.

Frees Operator for Other Work

This automatic bag hanger supplies empty open-mouth multiwall bags to a filling machine and places them on the



Circle 112 on Reader Service Card

loading spout, eliminating the need for a bag filling operator. It's adaptable to all Union I & C bagger models. With both vertical and horizontal adjustments, it can handle a wide range of bag sizes, both gusset or tube type. Speeds, gov-

FOR MATERIALS ON THE MOVE!

Universal

BUCKET ELEVATORS AND BELT CONVEYORS ARE ENGINEERED TO MEET YOUR NEEDS

Universal Bucket Elevators are designed to offer a more compact unit that will elevate your materials smoothly and surely. Standard steel, galvanized or stainless elevators can be supplied in complete "packaged" units . . . ready to install and put to work.

THROUGH RESEARCH AND
MODERN PRODUCTION
METHODS UNIVERSAL OFFERS
YOU . . .

ADVANCED DESIGN — More compact, cleaner operating, smoother running.

GREATER ECONOMY — Low initial cost, low operating cost, minimum maintenance and repair.

EASIER INSTALLATION — Jig assembly, at the factory assures precision fitted components.

QUICK DELIVERY — Production line methods and rigid quality control assures fast delivery. Parts are kept in stock to avoid costly shutdowns.

Universal Bucket Elevators are available for capacities up to 3750 cubic feet per hour and may be obtained for any exact height.



UNIVERSAL "TROF-BELT" CONVEYORS

. . . offer a low cost efficient method of moving all free flowing materials. Low initial cost, less maintenance and trouble-free service are made possible because of the smooth rollerless design.

There's a Universal "TROF-BELT" conveyor designed to meet your specific needs in capacities up to 3,750 cubic feet per hour.

GUARANTEE

Universal guarantees complete satisfaction within 60 days or full purchase price will be refunded. Materials and workmanship guaranteed for one year.

Send For Free Literature and Prices



BOX 133

CEDAR FALLS, IOWA

Circle 86 on Reader Service Card

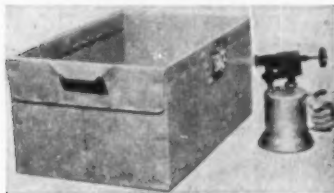
MATERIAL HANDLING ILLUSTRATED

erned by the automatic bagger, are up to 25 bags a minute. Magazine holds up to 400 bags. Entire operation is controlled, foolproof.

Union Bag-Camp Paper Corp.

Fibre Box Is Fireproof

This fibre box will not burn. Even after five minutes, the blow torch flame at 1,660°F produces nothing more than



Circle 113 on Reader Service Card

a shredded spot on the box. The rigid, light, low cost boxes are recommended for handling where welding sparks, soldering irons, and such are dangers. The box will not tarnish from copper, brass, or silver parts.

Beacon Boxes Inc.

EQUIPMENT IN ACTION



Circle 220 on Reader Service Card

HANDLING 750-lb barrels at Automatic Electric Co. took two men, was hazardous and inefficient. Hardly worth the effort, said a company official. So they tried a removable swivel boom with a grab (made at Automatic), mounted on an electric elevator (Grand Lift Stacker). Now it takes only one man to pick a barrel from a hand truck, rotate the barrel with the grab, and rack the barrel, bung hole out for dispensing. This takes less than half the time and it's safer. The previous system, needing more manual work, included dropping the barrel from the hand truck.



THESE FREE BULLETINS catalog the most complete line of overhead air hoists

Discover the simple, low-cost way to eliminate back-breaking lifting and tugging. Learn how easy it is to save time and money for your business. Find out how you can pep up the efficiency of lifting operations throughout your plant.

Fill out the coupon now and mail it in. We'll send you the Gardner-Denver bulletins which catalog the most complete line of overhead air hoists on the market. Here's what these bulletins will tell you:

How to order air hoists for any lifting capacity up to 4000 pounds.

How to order air hoists with lifting speeds from 19 to 90 feet per minute.

How to use the "Hoistractor" (powered trolley) with any beam hoist.

The advantages of safe, nonsparking air power.

The safety features engineered into all Gardner-Denver air hoists.

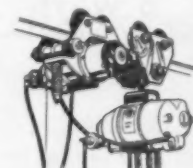
A selection of convenient air hoist accessories.



Piston air motor hoists noted for lugging power.



Rotary air motor hoists for high-speed lifting.



"Hoistractor"—powered trolley with air hoist combination.

*Trade-Mark



EQUIPMENT TODAY FOR THE CHALLENGE OF TOMORROW

GARDNER - DENVER

Gardner-Denver Company, Quincy, Illinois

In Canada: Gardner-Denver Company (Canada), Ltd., 14 Curry Avenue, Toronto 16, Ontario

MAIL THIS COUPON TODAY

Gardner-Denver Company, Quincy, Illinois

Gentlemen: Please send me bulletins describing your complete air hoist line.

Name..... Position.....

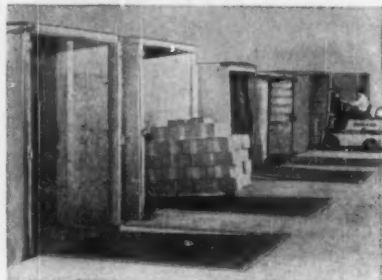
Company.....

Address.....

City..... Zone..... State.....

Circle 41 on Reader Service Card

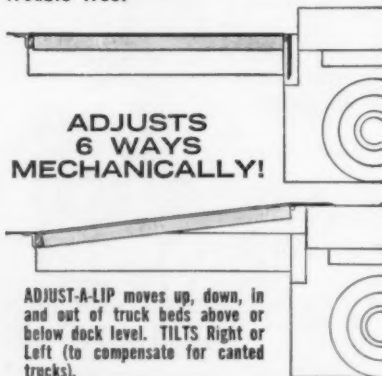
KELLEY DOCKBOARDS CUT COSTS 20% FOR CHEESE CO.



"Down went dock operating costs, up went use of valuable power equipment, when we installed Kelley Hi Lo Dockboards," reports R. G. Bush, Chief Engineer at Schreiber Cheese Co., Green Bay, Wis.

In his letter to a prospective Kelley purchaser Bush exclaimed, "Kelley Dockboards have more than paid for themselves! Our men look for ways to load trucks with powered equipment today. Previously, the use of loose dock plates made them reluctant to use powered equipment going in and out of trucks because dock plates could easily slip out and cause a serious accident.

All in all, Kelley Dockboards are one of the best investments we've ever made. And, their Dockboards are truly trouble free!"



FREE Get the FACTS!
Send for details TODAY!

- ☐ FREE KIT — "How to Plan a Profitable Truck Dock Operation."
- ☐ Get booklets on Dock Safety, Modernizing, Levitation Data, Dock Designs, etc.
- ☐ FREE SURVEY — No obligation.
- ☐ Facts and Figures — Get Bulletin titled "How to get an ADJUST-A-LIP for \$1.00 a day."

Tear out and attach this coupon to your letterhead. Sign your name and mail to:

KELLEY COMPANY INC.
2159 W. MILL ROAD
MILWAUKEE 9, WISCONSIN

Circle 50 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

Truck Coder

The Cargo Coder is a mechanical device for showing numbers on a towline truck. The photograph shows the differ-



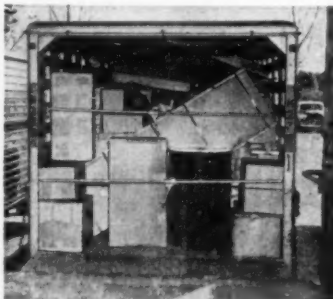
Circle 114 on Reader Service Card

ence in legibility between the Coder on the right and a blackboard on the left. The numbers on the Cargo Coder can be changed quickly and easily, even by a worker wearing gloves.

Reliance Equipment Inc.

Holds Truck Loads in Place

Load Stop friction-type jacks can reduce damage in transit as well as eliminating loading and unloading headaches.



Circle 115 on Reader Service Card

They're scientifically designed to hold loads in place; a simple inexpensive bracing technique. Heavy rubber pads hold the steel bars firmly in place. They're light, easy to handle, almost indestructible.

Load Stop Mfg. Co.

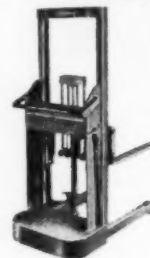
Compact Transistorized Radio

An expanded line of extensively transistorized Motrac radios has been introduced by this company. It includes models for operation from either 6 or 12 volt sources,

**AMERICAN
Safeway**

PORTABLE ELEVATING TRUCKS for any stacking job

From 46" to 130" lift



STANDARD
MODELS
priced from

\$190⁰⁰
to
\$855⁰⁰



Your crew can do twice the
handling work for
the same payroll cost

... and to take the heavy work
and heavy costs out of
HORIZONTAL HANDLING

**AMERICAN
LOAD-JOCKEY**



... the new drive
attachment for
portable elevating trucks

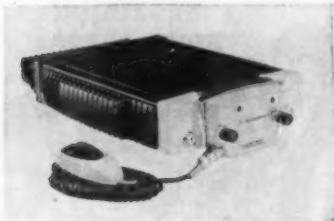
MATERIALS-HANDLING DIVISION
The American Pulley Company
4200 Wissahickon Ave., Philadelphia 29, Pa.
AMERICAN SAFEWAY TRUCKS—
by the makers of the famous American Pressed-Steel
Hand Trucks



Circle 5 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

consists of 25 and 50 watt units in the low band frequencies and 30, 60, and 80 watt units for high band frequencies. External heat radiators are utilized in the



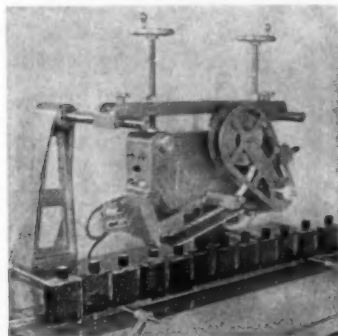
Circle 116 on Reader Service Card

new radios to dissipate heat from the few remaining tubes and the power transistors. Low operating costs and high reliability are main features according to the company. High quality circuit boards, modules, and die cast construction are used to further reliability, compactness, rugged operation. Units are three inches high, 13 inches wide, 17 inches long.

Motorola, Inc.

Automation in Labeling

Pressure sensitive labels go from the roll to your products quickly, cheaply with the Dispens-A-Ply Automatic Label-



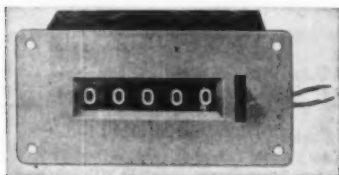
Circle 117 on Reader Service Card

er. You buy the labels to your order from your own supplier; the machine does the rest. It removes them from the paper backing and applies them directly to your product whether you package in bottles, jars, cans, or prewrapped packages. It adjusts to any size package. It takes labels up to 3/4" wide. With the Dispens-A-Ply Coding Attachment it also prints price, size, color, lot number, or any other variable data.

Derby Sealers, Inc.

AC Counters

The Model "YE" series of electric counters is available for AC current. Ac-



Circle 118 on Reader Service Card

cording to the company, this is the first counter of this type manufactured for

BUSCHMAN CONVEYORS WIN INDUSTRY'S HIGHEST AWARDS

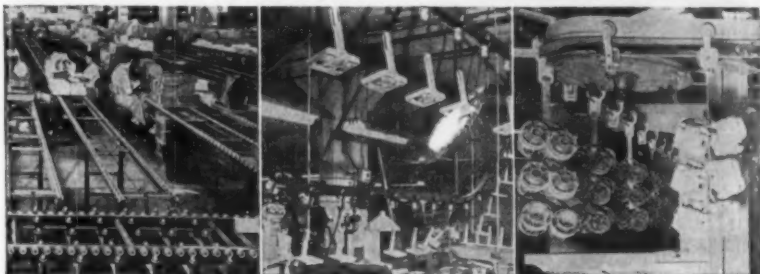
American business is rough and tough and demanding, yet quick to recognize and reward real merit. The best and biggest companies buy Buschman standardized wheel, roller and belt conveyors out of stock.



They also come to this Company for the engineering, building and installation of complete systems, comprising wheel, roller and belt units, table-cable conveyors and overhead trolleys. Often they ask the near-impossible in conveyor accomplishment . . . and from Buschman they get it!



These customers obviously appreciate the engineering excellence, quality and profit potentials so evident in Buschman products. They continually reward us with the highest recognition that industry can bestow. *Namely, orders and repeat orders.* We thank them for their original patronage; even more for their extremely significant encores! The E. W. Buschman Company, 4552 Clifton Ave., Cincinnati 32, Ohio.



Macy's

Minneapolis-Honeywell

Ford Motor

Buschman

CONVEYORS

Complete Conveyor Systems for all Industries—Engineered, Manufactured, Installed
Representatives in Principal Cities

300

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Hartman PORTABLE LIFTS DO MORE JOBS EASIER!



Hartman METAL FABRICATORS
131 Murray Street, Rochester 6, N. Y.

Name.....
Firm.....
Street.....
City..... State.....

Circle 44 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

use with alternating current for both the operating and reset coils. The counter has speeds up to 1500 counts a minute.
Durant Manufacturing Co.

Steel Reinforces Tire

An industrial tire reinforced by thousands of short steel fibers has been introduced for use on industrial trucks and



Circle 119 on Reader Service Card

tractors. The steel reinforcement was designed to protect the tread and sidewalls against damage in severe service conditions. It is said that the tire, called the U. S. Royal S.R.T. Grip-Matic, can be retreaded more times than a conventional tire. The reinforcement consists of a thick layer of rubber containing thousands of short lengths of hardened steel filaments which are closely interlaced but individually insulated.

United States Rubber Co.

Weatherproof Your Dock

Capco Door Seal Bumpers can seal the weather out of your loading dock for installations where the dock is enclosed



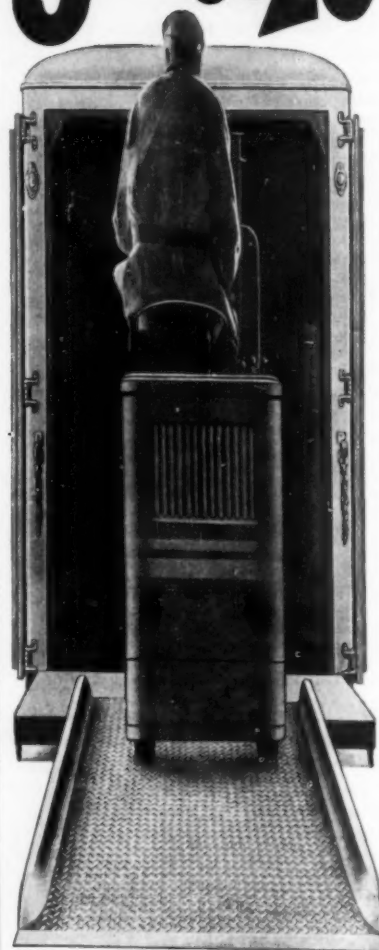
Circle 120 on Reader Service Card

up to the edge. These bumpers are made of foam rubber. When the truck backs against them it forms an airtight seal between building and truck. No more cold air, wind, rain, or snow blowing into your plant during loading and

Day after day...

MAGLINER MAGNESIUM DOCK BOARDS

Squeeze

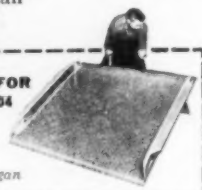


...100 PENNIES WORTH OF PRODUCTIVE HANDLING EFFICIENCY OUT OF EVERY DOLLAR SPENT ON DOCK LOADING OPERATIONS!

Magliners are doing a big job for many companies just like yours. You should know how and why Magliner Magnesium Dock Boards can help you move loads between dock and carrier... faster, for less money than it costs you now!

WRITE TODAY FOR BULLETIN DB-264

MAGLINE INC.
P. O. Box 94
Pinconning, Michigan



Circle 60 on Reader Service Card

unloading. Also ends damage to truck and dock when they bump.

Capco

Use Excelsior Right

A shredder for bales of excelsior breaks up the compressed material, shreds it, and discharges it fully fluffed. Tests prove



Circle 121 on Reader Service Card

it makes the excelsior softer, more resilient, better for cushioning. Just put the bale in the hopper at top, the machine does the rest. Rolls easily from one spot to another. Also good for insulation, paper, peat moss, soil, etc.

Kemp Mfg. Co.

Speed Cuts Coding Costs

You can code up to 60,000 containers an hour with the Model TMT Marko-coder. It imprints code dates or other short legends on cans, jars, bottles, and other cylindrical packages. Self-powered and self-synchronizing, it adjusts to any rate up to 1,000 a minute, speeds up or slows down automatically to match

Circle 83 on Reader Service Card



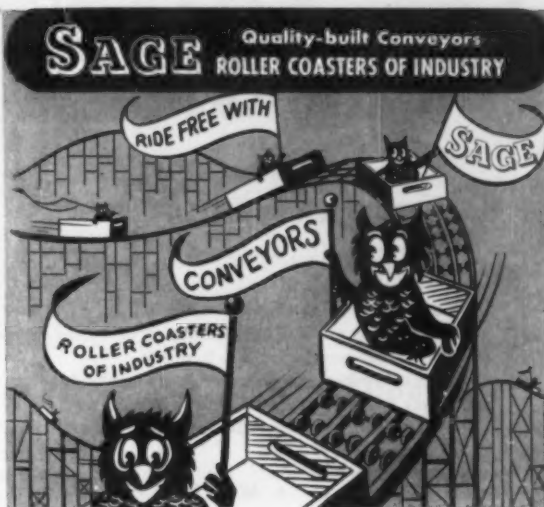
GRAVITY CONVEYORS

Wheel Roller
Wheel Rail
Ball Transfers
Wheel Rail
Storage Racks

POWER CONVEYORS

Live Roller
Floor-to-Floor
Portable Boosters
Slat and Apron
Assembly and Table
Horizontal Belt
Press Parts
Chain
Bottle and Can

DUMB-WAITERS



Cut Your Costs with SAGE Conveyors

SAGE money saving "roller coaster" conveyors cut your non-productive material handling costs in every department including receiving, production, assembly, stocking and shipping. Off-the-shelf delivery of steel and aluminum gravity and power conveyors. Also engineering, manufacturing and installation service. Write or phone for free SAGE Conveyor Guide No. SA-101. See yellow pages of your phone book.

SAGE EQUIPMENT CO., Inc.

36 Essex St.

ELmwood 5242

Buffalo 13, N. Y.

Yale tractor shovels

are setting new performance standards wherever they are used. Compare Yale power against any other in its field. Only Yale gives you a torque converter and fully automatic transmission with 72-hp. 6-cylinder engine. Compare Yale action! 2500-lb. carry capacity bucket. Exclusive 45° bucket tipback for faster loading and minimum spillage. 6 ft. dumping clearance—highest in the field. Compare Yale safety! Safety-curve lifting members never rise alongside the operator. Front and rear working lights for additional security. Compare Yale design! Rugged, simplified, more efficient. Brakes and electrical system sealed. 10-ply tires. Many parts interchangeable with Yale Gas trucks. Compare these features with a demonstration in your own plant. You'll save time and money!

For full information, or a demonstration, call your Yale representative, or send for free brochure #5255A to The Yale & Towne Mfg. Co., Materials Handling Div., Phila., 15, Pa., Dept. YT-4

YALE
INDUSTRIAL LIFT TRUCKS
TRACTOR SHOVELS - HOISTS
YALE & TOWNE



Yale Materials Handling Division, a division of The Yale & Towne Manufacturing Co. Manufacturing Plants: Philadelphia, Pa., San Leandro, Calif., Forrest City, Ark. Products: Gasoline, Electric, Diesel, LP-Gas Industrial Lift Trucks • Worksavers • Warehouses • Hand Trucks • Industrial Tractor Shovels • Hand, Air, Electric Hoists

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modernize with **HydroLectric**

A GREAT NAME IN LIFT TRUCKS

- Two driving wheels instead of one
- Braking with handle in any position
- Automatic parking brake (optional)
- Sealed alloy gears instead of chains
- Sealed ball-bearing rollers in masts
- 100% more steering ease with two wheel drive
- Power unit removal complete in 20 minutes
- Greater tire capacity equivalent load ratings



• Write for Bulletin KHL



A TRUCK FOR EVERY PURPOSE AND MATERIAL

LIFT TRUCKS, INC.

CINCINNATI 14, OHIO



Self-Dumping Hopper solves aggregate storage problem

To provide flexibility and maximum efficiency in their outside storage operation, Cincere Corporation, Long Island City, N. Y., uses Roura Self-Dumping Hoppers. At dockside, an overhead crane transfers cinder aggregate from barges to stockpile. But when production variances cause the storage pile to grow too large, the crane dumps the aggregate directly into a Roura Self-Dumping Hopper. The loaded Hopper

is carried by a standard lift truck to storage areas not reached by the crane. The truck operator simply flips the latch and the Hopper automatically dumps its load, rights itself and locks itself. One man does the entire job quickly and most economically.

Roura Hoppers fit any standard lift truck . . . handle wet or dry, hot or cold bulk materials . . . cut costs . . . save time.

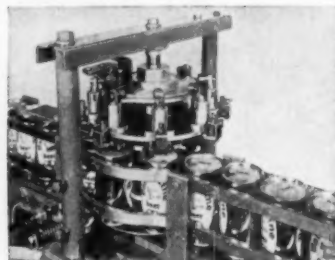
ROURA
Self-Dumping
HOPPER



WANT MORE DETAILS? Attach this coupon to your letterhead and mail, or
PHONE COLLECT TO send 8-3560
ROURA IRON WORKS, INC.
1408 Woodland Ave., Detroit, Michigan

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WHAT'S NEW IN EQUIPMENT



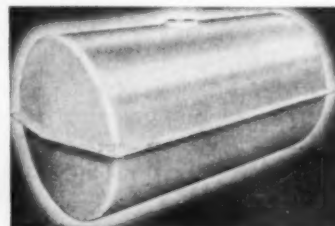
Circle 122 on Reader Service Card

product flow. It's fully automatic, can locate anywhere on your line, easy to change legends, holds a whole day's ink supply. It can adjust for different size products, and can print on surfaces recessed as much as $\frac{5}{8}$ ".

Adolph Gottscho, Inc.

Store Corrosives in Plastic

Here's a molded fiber glass tank for spraying or storing corrosive liquids. It's a 200-gallon cylinder 52" long with 32"



Circle 123 on Reader Service Card

diameter. It's light, easy to clean, resists impacts, and has long life. It's translucent so the liquid level is always visible. Comes in a variety of colors to code different liquids.

Molded Fiber Glass Body Co.

Safety in Loading

Magnalum dock plates have safety-tread surfaces for maximum traction, minimum injuries. Designed for truck loading,



Circle 124 on Reader Service Card

they're lightweight, easily handled by one man. Standard models are 48" wide, from 24" to 60" long. Special sizes available. Load ratings from 1,000 to 5,000 lbs axle load. Additional features: positive position stops lock board between

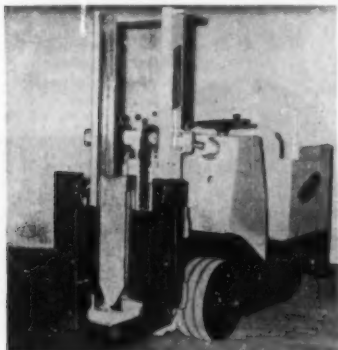
MATERIAL HANDLING ILLUSTRATED

dock and vehicle; beveled edges for smooth crossing; edges have bright yellow safety markings.

Magline Inc.

Magnet Attachment

A magnetic tin plate attachment has been designed for holding loose sheets during transportation on a pallet. The



Circle 125 on Reader Service Card

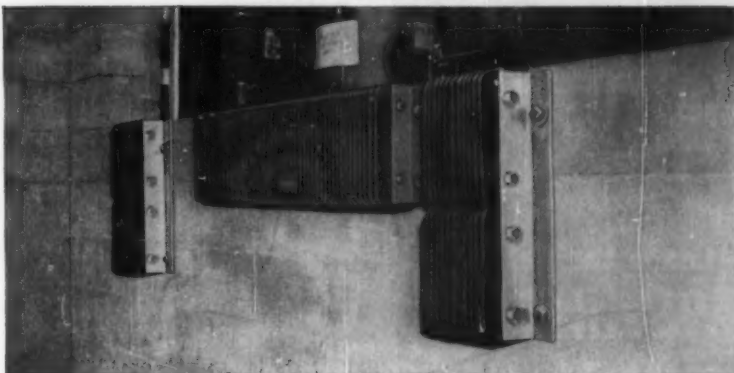
magnet control switch is mounted on the truck cowl. The "off" position of the switch de-energizes the magnet for releasing the load. According to the manufacturer, the attachment does not reduce the capacity of the truck.

Elwell-Parker Electric Co.

Save by Hauling in Bulk

Model BMC-T dry bulk materials trans-

Circle 32 on Reader Service Card



Timber Toothpicks or RESILIENT RUBBER ... Which? -- No. 1 or No. 2

- 1** Dock timbers soon become splintered — require frequent replacement. Shocking to your docks — Costly to you!
- 2** Durable Resilient Rubber Dock Bumpers are guaranteed for five years — and impact tests prove 81% absorption.

Is it any wonder that economy minded industries and truck lines install Durable Dock Bumpers?

Why don't you?? — and insist on guaranteed Rubber Dock Bumpers by



DURABLE MAT COMPANY

75 N. Pleasant St., Norwalk, O. • 755 Kifer Rd., Santa Clara, Calif.

Engineered and Standardized to deliver Outstanding Performance

GENERAL PURPOSE BELT CONVEYERS

• Mathews General Purpose Belt Conveyers are furnished in a wide range of belt widths and section lengths. They can be assembled easily, for all parts are standardized and furnished from stock. The conveyers have several features which make them especially practical for the average package handling problem. The drive unit may be located at the end, or at any convenient point beneath the conveyor. End roller assemblies, takeups, and three-pulley devices are all standardized and easily installed.

Write for Bulletin G. P. 53 and Catalog 856 today.



GENERAL OFFICES	MATHEWS CONVEYER COMPANY
	Ellwood City, Pennsylvania
WESTERN DIVISION	MATHEWS CONVEYER COMPANY WEST COAST
	San Carlos, California
CANADIAN DIVISION	MATHEWS CONVEYER COMPANY, LTD.
	Port Hope, Ontario, Canada

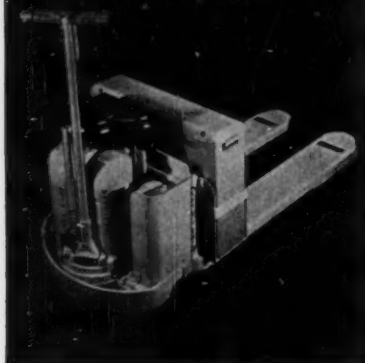
Over Fifty Years of Leadership in Mechanized Handling

MATHEWS

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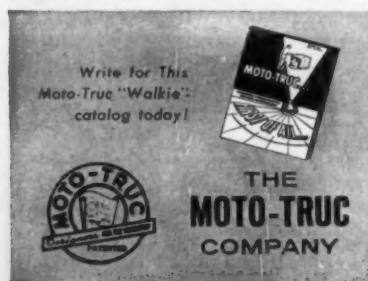
MOTO-TRUC

Leads the field in
"Walkie"
Pallet
Trucks



The toughest little walkie in the business

■ Built to handle more loads at less cost, the MOTO-TRUC walkie pallet trucks is the most popular model on the market. Its ultra-simple construction means far less maintenance and greater dependability. Yet, in spite of its small size, it's built to take rough treatment and will give years of useful service on the severest jobs. Moto-Truc walkie pallet trucks are available in 4,000 and 6,000 pounds capacity models with fork dimensions to fit any load.



1926 East 59th Street
Cleveland 15, Ohio

Circle 67 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

port can cut your handling and shipping costs for bulk materials. It's self-unload-



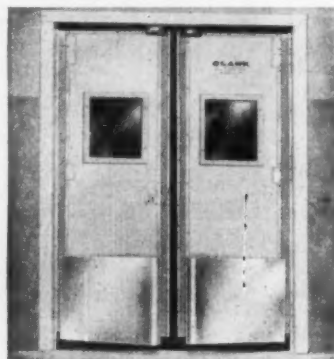
Circle 126 on Reader Service Card

ing, quick and easy to operate. Originally designed to handle cement, it's equally good for sugar, flour, chemicals, fertilizers, etc. The trailer has three 10-inch fill hatches with watertight covers. Twin screw discharge system unloads up to five barrels a minute. Each screw has four air pads. Simply reverse screws to dislodge lumps or prevent bridging over conveyor shields. Two-stage drive lets you discharge the back part of the load before engaging front screws. Hydraulic power comes from the tractor power take-off, or a 25 hp air-cooled engine is optional.

Dorsey Trailers

Door Bumper

This self-closing door features bumpers that take the shock of contact with fork lift trucks. Bumpers are urethane filled



Circle 127 on Reader Service Card

to absorb the impact. Flexibly suspended hinges provide uniform distribution of stress throughout the length of the door at either side. Spring return assures tight closing; drafts and noises are eliminated by neoprene seals.

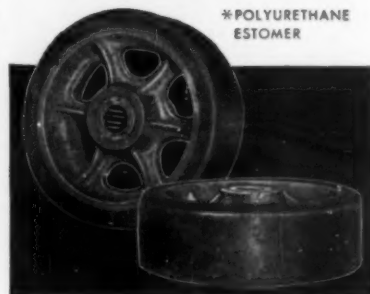
Clark Door Co.

Coil Handler

The Turnover Cradle switches coils of metal strip from an on-edge position to a horizontal position and palletizes them

NEW ALBION'S ALaTHANE* WHEELS

*POLYURETHANE
ESTOMER



WEAR LIKE STEEL... PROTECT LIKE RUBBER

Truly a *wonder wheel* for all rugged industrial applications where high capacity and floor protection is a "must". Albion's amazing new ALaTHANE wheels are conservatively rated for 5 times the service life of rubber and they're extremely resistant to abrasives, have load capacities of steel wheels, resist a permanent "set" under static loads and are impervious to practically all chemicals, solvents, etc.

Better yet... ALaTHANE wheels—or complete casters, are immediately available from stock in 6" to 12" wheel diameters with clean, machine-faced steel hubs and roller bearings.

So—if you want the quiet resiliency and protection of rubber, the capacity and lasting durability of steel, plus a new wheel economy... you'd better specify Albion's ALaTHANE.

Remember
ALaTHANE
for both wheels
and complete
casters!



Write today for your free
copy of the new ALaTHANE
wheel and caster folder.

ALBION
INDUSTRIES, inc.

ALBION, MICHIGAN

Circle 1 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED



Circle 128 on Reader Service Card

simultaneously. It can also take a palletized stack of coils and set it on edge, ready to feed to a machine. The Cradle eliminates damage to coiled material and cuts handling time.

La Deau Manufacturing Co.

More Use for Trailers

Trailer bodies virtually become portable warehouses when Morhaul equipment



Circle 129 on Reader Service Card

EQUIPMENT IN ACTION



Circle 221 on Reader Service Card

DYNAMOMETER checks safety factor and lifting power of portable hydraulic crane in one simple operation. Ruger Equipment Inc. checks every crane with a Dillon Dynamometer which gives an immediate reading in pounds. Compact size, ruggedness, and accuracy of instrument make it useful for general production-line testing. This model, with 5-inch diameter dial, measures loads up to 10,000 lb. Twelve other capacities range from 0-500 lb to 0-100,000 lb.

Circle 76 on Reader Service Card

BLOCK OUT OLD STENCILING AND MARKINGS

Spray REYNOLDS QUICK-DRYING—WATERPROOF Stencil-Kover®



New, improved formula permits quick re-stenciling—and salvage of cartons

● Tan colored to match corrugated cartons, this new Stencil-Kover is very opaque. Gives excellent coverage. Dries in minutes. Transforms used cartons, boxes and crates into clean, new looking containers. Permits prompt re-stenciling and re-use of original container. Quick, easy way to correct stenciling errors, or salvage over-runs. Packaged in the handy, easy-to-hold aerosol container. Always ready to use. No cans to open. No drying out. No waste. Keep a supply handy in your packing and shipping departments.

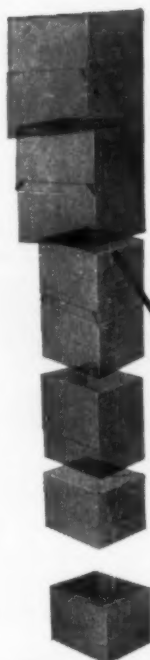
Fully descriptive folder sent on request. Write today!

REYNOLDS INK, Inc.

4530 EUCLID AVE. • CLEVELAND 3, OHIO



WHAT'S NEW in material handling containers? THE UNIQUE MIRACLE TOTE BOX



**POPS OPEN 1-2-3
FOR IMMEDIATE USE
CLOSES FLAT FOR
STORAGE AND REUSE**



A new concept in material handling for toting, storage, shipping. Unique Miracle Totes instantly pop open ready for use with no extra steps. Fold flat to save space. Unique Miracle Totes are made of a heavy corrugated board to form a rigid "box within a box." Miracle Totes are easy to lift and carry, even when full. Ideal at machine locations, Miracle Totes stay flat, quickly open when needed. Parts can be stored and stacked 10 feet high in strong Miracle Totes. Economical Miracle Totes have unlimited carrying and storing uses in plants and offices. Use this handy coupon to send for complete information on the Paige Miracle Tote Box.

**The PAIGE
Company**

114 EAST 32nd ST.,
NEW YORK 16, N. Y.

The Paige Co., 114 E. 32nd St., N. Y. 17, N. Y. MHI-460
Send the new, illustrated Miracle Tote Box brochure.

NAME _____ TITLE _____
COMPANY _____
STREET _____
CITY _____ ZONE _____ STATE _____

Circle 74 on Reader Service Card

3 TOP VALUES

From Among 80
BIG JOE
Lift Truck Models



1
"the PEDALIFT 21"
\$199⁰⁰ complete
1000 lb. capacity
54 in. lifting height



2
"the 299"
\$299⁰⁰ complete
1000 lb. capacity
57 in. lifting height
Battery Operated



3
"the CHALLENGER"
\$397⁵⁰ complete
1500 lb. capacity
57 in. lifting height
Battery Operated

Hydraulic Handling for
EVERY Department
BIG JOE
Manufacturing Company
Sarrington Road
Wisconsin Dells, Wisconsin

Circle 8 on Reader Service Card

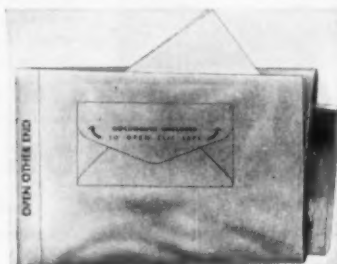
WHAT'S NEW IN EQUIPMENT

is added to standard highway equipment. Morhaul consists of leg kits and lift kits to be installed on existing or new rigs. The legs are counterbalanced, fit on any trailer or master van type shipping container. The lift kit is a simple hydraulic system, easy to install in the truck or trailer chassis. Also available: an optional lift for rail cars. Morhaul equipped trailers can be left standing anywhere.

Moore-Handley

Padded Bag Holds 1st Class Mail Too

A padded shipping bag with a double mailer for first class letters is now available. Called Duo-Bag, the bag part is



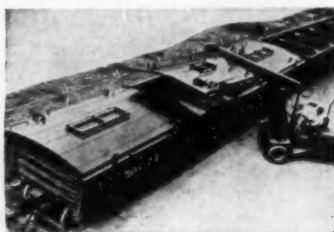
Circle 130 on Reader Service Card

padded with an effective cushioning material. An overlapped back seam forms a water-resistant envelope for documents, letters, or other first class mail. You save postage, speed deliveries.

Jiffy Mfg. Co.

Protect Open Loads

Now you can get a whole family of Yocar damage control devices for gondola cars. They include movable locking bulk-



Circle 131 on Reader Service Card

heads, a removable roof in 3 sections, and easy-to-handle hoods for sealing out weather and dirt.

Youngstown Steel Car Corp.

The Right Shape for Bulk

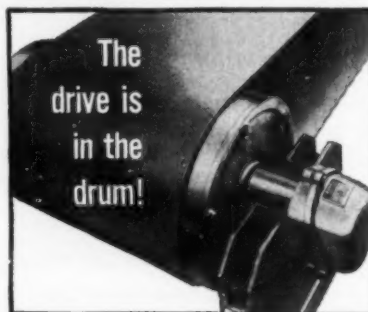
Free-flowing materials tend to make any container assume a cylindrical shape, causing flat-sided containers to bulge. That's why Cylindra-Pak Generalift wire-bound pallet boxes are ideal for bulk

2 POWERFUL AIDS

to more economical
plant operation

BAUER

DRUM MOTORS & GEAR MOTORS



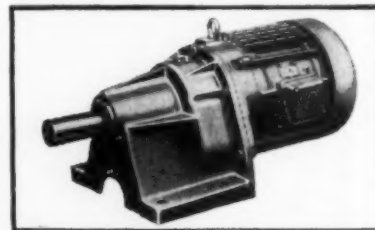
The
drive is
in the
drum!

BAUER SELF-DRIVEN HEAD PULLEY

Motor, gears, all moving parts integrally designed in a compact efficient, one-piece totally enclosed conveyor drive unit.

Eliminates V-Belts, external drives and all safety hazards. Cuts down on maintenance time. Easy, quick installation.

From 1/4 to 25 H.P. in all standard widths and diameters. Service and parts readily available in U.S.



BAUER GEAR MOTORS

1/50 to 30 HP—0.3 to 800 RPM
Quality Motors Economy Priced

Over 30 years of experience and know-how are built into every BAUER gear motor and drum motor.

Totally enclosed and fan-cooled BAUER gear motors are designed to function well in any position, vertical, horizontal or wall mounted.

For further information check with your distributor or write for illustrated literature to: MHI-1

FACTORY REPRESENTATIVE

Georg von Opel Corp

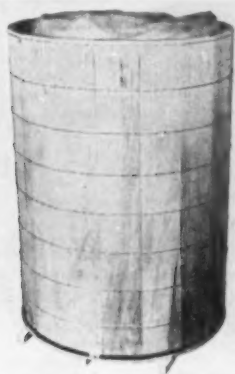
15 WILLIAM STREET, NEW YORK 5, N. Y.

In Canada: Alliance Electric Works Ltd.
145 Bates Rd., Montreal 8, Quebec

Circle 87 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

loads. The binding wires contain the outward thrust, eliminating bulging. The containers actually get stronger as they're



Circle 132 on Reader Service Card

filled. They ship and store flat, but are easy to assemble. They're puncture-proof, and held together by one steel strap. Solid sides or open, expendable or reusable. They come in 36" or 42½" diameters, any height up to 72".

General Box Co.

Swivel-Plate Casters

The L900 series of swivel-plate casters is designed for trucks and portable equipment carrying loads up to 2000 pounds.



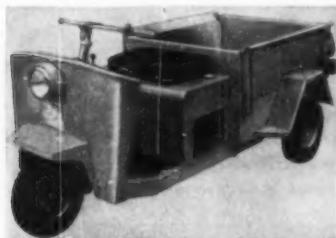
Circle 133 on Reader Service Card

It includes 5, 6, and 8 inch wheels with load capacities of 175 to 500 pounds each. Eight types of wheels are available to meet the hard-tread or soft-tread requirements of any floor surface or operating condition.

Faultless Caster Corp.

Costs Little To Operate

A light hauling vehicle features economy of operation, compact size for use inside



Circle 134 on Reader Service Card

the plant as well as on the street, and a rugged power plant. The 780 Truckster

Circle 77 on Reader Service Card

FOR FASTER, LESS COSTLY STENCILING OR MARKING ON ANY SURFACE OR MATERIAL



Spray
REYNOLDS
QUICK-DRYING—WATERPROOF
STENCIL INK

9 Colors—Each packaged in the handy, easy-to-use 12 oz. Aerosol Container

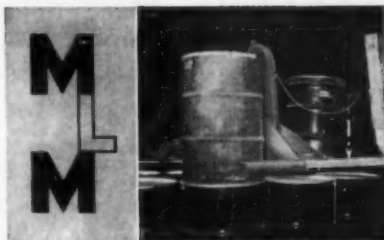
Stenciling, color coding and identification marking have now become clean, quick and easy. Container sprays a dense, compact cone of specially formulated ink at the touch of a finger. Ink is very opaque. Dries in seconds. No smear, smudge or curtaining. Not to be confused with slow drying paints, lacquers and enamels. Easy to store. Always ready to use. No cans to open; no pots or brushes to load. No drying out, no waste, no mess. Saves time. Specify Reynolds,—the original, proven best, quality ink for any marking. A trial will convince you.

Fully descriptive folder sent on request. Write today!

REYNOLDS INK, Inc.

4530 EUCLID AVE. • CLEVELAND 3, OHIO

Modern Light Metals Sure-Grip Ladd Drum Lifter



makes it practical to handle metal drums with a fork lift truck! Up to 2,000 lbs. capacity!



MLM Magnesium Dock Boards are Strong, Durable, Light

DOCK BOARDS • YARD RAMPS
LIGHT-WEIGHT DOLLIES • PALLET DOLLIES
SPECIAL EQUIPMENT

Write for details to:

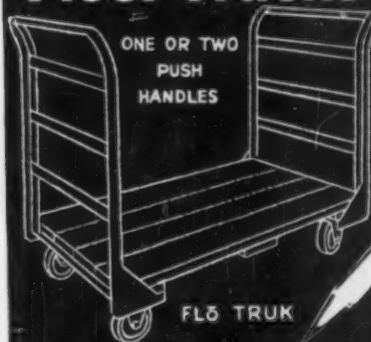
MODERN LIGHT METALS, Inc.

Coloma, Michigan

Phone HOWard 8-5041

Circle 64 on Reader Service Card

Ironbound Floor Trucks



ONE OR TWO
PUSH
HANDLES

FLO TRUK

Write for
Illustrated
Catalog

BOUND TO BE BETTER
Ironbound
MATERIALS HANDLING EQUIPMENT

**IRONBOUND BOX &
LUMBER COMPANY**

10 HOFFMAN PLACE, HILLSIDE, N. J.

Circle 48 on Reader Service Card

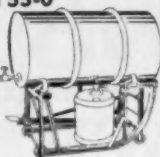
Circle 65 on Reader Service Card

NOW

... The Easiest One-Man Drum Moving Ever!

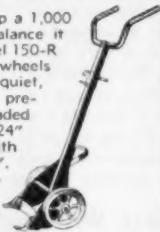
MORSE Model 55-0 DRUM CRADLE TRUCK

Low-cost and versatile, this cradle truck carries . . . rotates, manually . . . dispenses. Has side opening for drums with side drain cocks. Long wheelbase and retractable caster frame give exceptional stability under load. For 55 and 110 gal. drums. Circle this product for literature and prices.



MORSE Model 150-R DRUM HAND TRUCK

One man can pick up a 1,000 lb. load . . . and balance it with one finger. Model 150-R features rubber tired wheels with ball bearings for quiet, easy rolling. Permits precise positioning of loaded drums. For drums 24" to 45" high and with diameters from 15". Sturdy steel construction. Circle this product for literature and prices.



Clip this ad to your letterhead



MORSE
MANUFACTURING CO., INC.
739 West Manlius Street, East Syracuse, N. Y.

WHAT'S NEW IN EQUIPMENT

uses a 4-cycle high compression engine which develops 7.95 hp. It carries an 800-lb payload at less than 1-cent a mile. The Truckster is only 48 inches wide. Improvements include a new chassis, longer, stronger pickup box, wide front shield, top hinged clutch and brake pedals, rubber mount for the engine, constant mesh transmission, hydraulic internal expanding brakes on all three wheels, independent parking brakes, heavy duty wheel rims, and sealed beam headlight. The starter is manual (kick-type) or electric. Body accessories include a personnel carrier, flat bed with stake racks, fiber glass cover for pickup body, dump box, or refrigerated box.

Cushman Motor Works Inc.

Still Fastening by Hand?

Just insert a magazine, snap the swing-case shut, and the Swingline Load-O-Matic Air Tacker is ready for hours of cheap, efficient fastening. Each magazine consists of an unbreakable plastic belt with 5,000 precut staple-forming wires. You can choose any of 4 sizes from one magazine. The stapler fires with recoil-less power-packed drive. It fits easily into restrictive areas hard to reach with



Circle 135 on Reader Service Card

other tools. The unit is designed for ease and comfort as well as simplicity and accuracy of operation.

Swingline Industrial Corp.

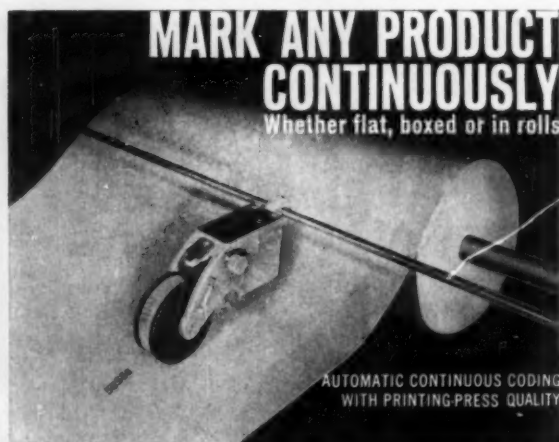
Filters LPG, Gasoline

A low-cost filter, Model F-101, has a sintered bronze element. Although designed primarily for LP-Gas, it works



Circle 136 on Reader Service Card

equally well for gasoline and other hydrocarbon fuels. The filter is 7/8" wide and



ALGENE CONTINUOUS CODER

Just set it and let it run — continuous or intermittent, coding on cloth, kraft, corrugated, metal, paper, glass, plastics, cellophane, waxed surfaces — top, bottom or sides. Positive friction drive, long-run ink fountain, adjustable spring tension for clear impressions. Printing area 3/4"x12" and up; Interchangeable rubber type or strips for quick changes. Ink for all surfaces supplied.

Write for free literature, specifications, low prices:

ALGENE MARKING EQUIPMENT COMPANY

Manufacturers of marking machines and corrugated printing presses.
232 PALISADE AVENUE ■ GARFIELD, NEW JERSEY ■ DEPT. MW

Circle 7 on Reader Service Card

**There's a
HYTROL
CONVEYOR
UNIT OR
SYSTEM
TO FIT
YOUR
NEEDS
EXACTLY!**



Hytrol engineers start with the problem — a study of your facilities as related to the conveying job to be done. More often than not, your low-cost solution is found in a unit or combination of standard units in the Hytrol catalog: Powered belt models, horizontal and inclined, floor-to-floor models, portable stackers, boosters, wheel and roller conveyors, complete accessories. Speedy delivery through distributors in major cities.



Circle 45 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED



**Heavy loads are
light and easy**

on

Bond
built-for-the-job
TRUCK CASTERS



40-A Series Double Ball Race Structural Steel Swivel Caster—tough and durable for heavy loads. Also 40-A-MH and 40-A-H Series.



41-A Series (also 41-A-MH and 41-A-H) Structural Steel Rigid Caster.



36-A Series Double Ball Race Semi-Steel Swivel Caster.

1-A Series Semi-Steel Rigid Caster.



Circle 15 on Reader Service Card

There's nothing slow-moving about Bond Truck Casters! On the contrary, they make the heaviest loads light and easy for fast, efficient material handling.

Ask your nearby distributor for Bond built-for-the-job Casters or write for your free copy of Bond Catalog K-40A.

Bond

FOUNDRY
& MACHINE COMPANY
324 Penn Street
MANHEIM, PENNA.

17/16" long, weighing only 2 oz. It is useful for most small engine conversions in fork lifts, farm tractors, and small stationary engines. The element is cleaned by blowing out in reverse. Fuel connects are 1/4" pipe.

Beam Products Mfg. Co.

Heavy Duty Side Loader

A side loading fork truck comes in 30,000-lb capacity for heavy duty work. It uses a six-cylinder gasoline engine.



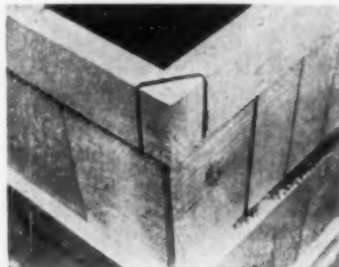
Circle 137 on Reader Service Card

transmission torque converter, and double reduction axle. Previous models include a 4,000-lb capacity electric, and 10,000 and 12,000-lb capacity gasoline and diesel. The side loader, called a Traveloader, has forks that extend to the side. The fork carriage can retract after placing the load on the vehicle deck for travel. The heavy duty model is designed for one-man operation at oil refineries, steel plants, lumber yards, pipe mills, and other such industries.

Baker Industrial Trucks,
Div. of Otis Elevator Co.

Tie-Corners Make Pallet Boxes Collapsible

Generalift tie-corner reusable pallet boxes can be assembled and disassembled over and over with the special corner



Circle 138 on Reader Service Card

hardware shown here. That means you can collapse them for storage or return trips. The corners stay tight no matter how many times you use them, and the boxes can be used for fine granular products without liners. Restraining cleats prevent bulging even with loads of a ton or more. These boxes are strong enough even for ceiling-high stacking.

General Box Co.

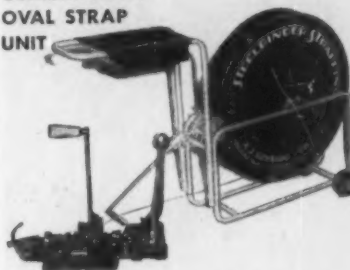
The Trick to Box Stapling

Sealing filled cases from the outside with staples is a quick and low-cost way. The Model M Clip-Top Packer closes an

(Advertisement)

NEW PRODUCTS

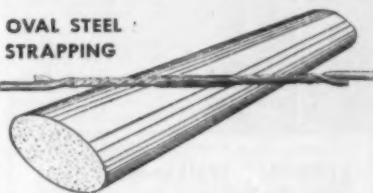
COMBINATION OVAL STRAP UNIT



Combination Unit 6002—A compact unit that can cut strapping costs as much as 50% is now available. Combination includes oval strapping tool, stationary dispenser and oval steel strapping. Write: A. J. Gerrard, 418 East Touhy Avenue, Des Plaines, Illinois

Circle item 21 on reply card.

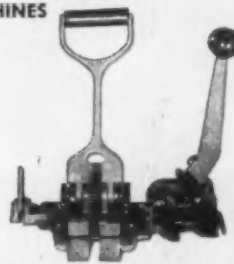
OVAL STEEL STRAPPING



Saves you as much as 50 to 80% on strapping cost. Oval steel strapping gives you 3 times more the lineal feet per pound with equal tensile strength to other types of strapping. Write: A. J. Gerrard, 418 East Touhy Avenue, Des Plaines, Illinois

Circle item 22 on reply card.

OVAL STRAPPING MACHINES



Models 2820 and 2840 are available in several sizes and styles to meet practically every industrial requirement. Write: A. J. Gerrard, 418 East Touhy Avenue, Des Plaines, Illinois

Circle item 23 on reply card.

STRAP AND WIRE CUTTER



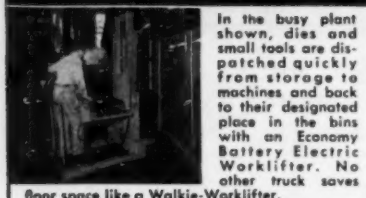
Model 503—Dual purpose cutter—cuts oval strapping, up to 3/4" wide flat strap, as well as 14 gauge and finer round wire. A valuable tool that quickly pays-for-itself in any receiving or shipping department. Write: A. J. Gerrard, 418 East Touhy Avenue, Des Plaines, Illinois.

Circle item 24 on reply card.

HOW TO EXPEDITE DIE HANDLING

USE

- Enclosed tool storage area
- Bins and shelves
- Battery Electric Lift Truck



floor space like a Walkie-Worklifter.

ECONOMY Walkie-Worklifter
4504 West Lake Street, EStebrook 8-9110
Chicago 24, Illinois

WHAT'S NEW IN EQUIPMENT



Circle 139 on Reader Service Card

average shipping case for less than 1/4 cent, in a few seconds. In addition to sealing it also sets up flat cartons ready for filling. Adjustable anvil staples A, B or C corrugated. Stainless steel through-out.

Container Stapling Co.

Dock Traffic Too Slow?

The Rotary Truck Leveler raises or lowers trucks to the level of the dock, meeting shippers' demands for faster, more efficient dock loading. It employs a non-skid steel platform set flush with the pavement in front of the dock, raising or lowering the truck's rear wheels hydraulically to bring the truck bed to the

level of the dock. This type of leveling keeps the angle between truck and dock at a minimum, so that there is no dan-



Circle 140 on Reader Service Card

ger of low-clearance lift trucks hanging up. Dock area stays clear and smooth for lift truck traffic or storage. The hydraulic system is electric powered, push button controlled, 40,000 lb capacity, 28" vertical travel.

Rotary Lift Co.

Payloads Increased

An aluminum brick and concrete block handling unit takes increased payloads of more than 1,000 lb. This is due to an 800-lb saving from aluminum construction. The unit goes on a lift truck or a crane. Hydraulic grips hold the first tier of blocks, forming a platform for more tiers.

Schmidgall Manufacturing Co.

Circle 141 on Reader Service Card

18 Sq Ft Bed Area

A material and personnel transporter runs all day on a tank of fuel. The

INSULATOR PRODUCTION TRIPLED!



FLOOR SPACE REDUCED BY 2/3!

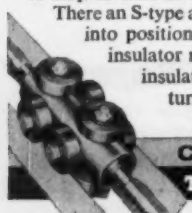
Installed at Thomas Works, Delta-Star Electric Division,
H. K. Porter Co. Inc., Lisbon, O. by Proctor & Schwartz, Inc.

AMERICAN "CHAINLESS" CONVEYOR

For 1200 feet of its 1400-foot length, this American "Chainless" Pallet Conveyor system winds through a compact Proctor & Schwartz dryer, built in two stages—one above the other. Before entering the oven, the conveyor is synchronized to stop as each of the pallets reaches an indexing hot press.

There an S-type arm sweeps a mold loaded with a clay plug into position, and at the same time moves a pressed insulator mold onto a waiting conveyor pallet. The insulators are removed from the molds and turned before entering the top dryer stage.

Write for Bulletin CD-B.



CONVEYOR DIVISION
THE AMERICAN MONORAIL CO.

Fourth & Franklin Streets • Tipp City 18, Ohio

Circle 3 on Reader Service Card

THE SENSATIONAL M-W COPPER-TONE lightweight HAND TRUCK

- Three times the strength of steel!
- Comparable in weight to the lightest magnesium and aluminum trucks!



Utility Hand Trucks

A complete line. Copper-Tone or steel models available with single or double handles; open or closed plate; air, zero pressure or solid rubber tires; tubular stair climbers and many other features. Capacities up to 1500 lbs.

Copper-Tone Trucks have a lifetime copper finish—the best-looking trucks in the land.

Considering their lightness of weight and tremendous strength—Copper-Tone Trucks are the least expensive fine hand trucks on the market.

M-W



INCORPORATED

204 Jefferson St. • Washington, Mo.

WRITE FOR OUR NEW
COPPER-TONE BULLETIN

MOELLENBROCK & WILKE, INCORPORATED

Circle 68 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

F-10 has a 9.2 hp air-cooled engine, industrial driveshaft, and full torque shifting constant mesh transmission with ma-



Circle 142 on Reader Service Card

for parts running in one reservoir of oil. The truck, with a bed area of 18 sq ft, has a 1,000-lb capacity for continuous use. It will climb an 18 per cent grade fully loaded.

The Prime-Mover Co.

Front End Loader Model Replaced

The rear-wheel-drive, front-wheel-steer Model HF Payloader is being replaced by the Model H-30R. The new model pro-



Circle 143 on Reader Service Card

vides a full 40 degrees of tipback to enable the operator to obtain larger loads

than was possible with the HF. The H-30R has a carrying capacity of 3,000 pounds. Buckets from 2/3 to 2 cu yd are offered for handling various materials within the rated capacity.

The Frank G. Hough Co.

Vertical Shaft Engine Announced

Here is the first models of vertical shaft engines produced by the company to provide heavy-duty power units of



Circle 144 on Reader Service Card

higher horsepower. The Model HACN has a power range from 2.5 hp to 6 hp, at 1600 rpm to 3600 rpm. A larger model, HBKN, has a range from 3.5 hp to 7 hp, in a 1600-3600 rpm speed range. The engines are designed for compact, low-silhouette applications.

Wisconsin Motor Corp.

Circle 35 on Reader Service Card

HOW TO INCREASE STORAGE WITH EXISTING FLOOR AREA

- USE
- Narrow aisles
 - High racks or bins
 - Battery Electric Lift Truck



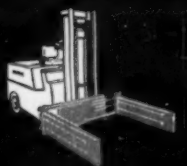
In this modern plant racks are 15 feet high and aisles are 45" wide. Finished goods are moved from packing tables to storage with an Economy Battery Electric Worklifter. No other truck saves floor space like a Walkie-Worklifter.

ECONOMY Walkie-Worklifter

4504 West Lake Street, Elmhurst 8-9110
Chicago 24, Illinois

Take full advantage of your equipment—

Clark Attachments are application engineered for your specific operations



Wide-Spread Clamp



Ram



Pulp-Pac



Carton Clamp



Roll Clamp



Shovel



Crane



Pulpwood Loader



Bartel Device



Side Shifter



**CLARK®
EQUIPMENT**

ATTACHMENTS SECTION
Industrial Truck Division
CLARK EQUIPMENT COMPANY
Battle Creek 69, Michigan

Please send Complete Line booklet.

Name _____ Title _____

Company _____

Address _____

City _____ Zone _____ State _____

Circle 25 on Reader Service Card

Circle 17 on Reader Service Card



**Prevent Dock Damage . . .
Protect Fragile Cargo With . . .**

**Low Cost
FLEX-O Rubber
Dock Bumpers**

■ Here's a ruggedly built dock bumper that minimizes dock, truck and freight damage by absorbing the impact of trucks backing into docks. Easily installed on wooden or concrete docks, they are the only bumpers made from resilient reversible rubber reinforced fabric that give you double service life. The bumpers will remain resilient even when frozen . . . require no covering and will not flatten or pack.

Write for detailed literature and prices.



BUMPERS, INC.
Subsidiary of Rowe Methods, Inc.
2534-E Detroit Ave. • Cleveland 13, O.



Z-I-P!
**IT'S OPEN IN
A JIFFY!**

**JIFFY PADDED
SHIPPING BAGS
Completely Redesigned!**

- ★ Tear Tape Opener—
- ★ Golden Clupak[®]
Outer Liner—
- ★ New Bag Construction—
- ★ NO PRICE INCREASE!

Write for your free sample today!

JIFFY MANUFACTURING COMPANY
360 FLORENCE AVENUE, HILLSIDE, N. J.

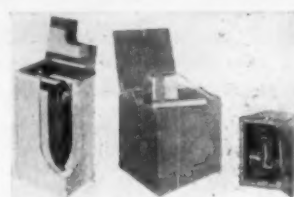
Clupak, Inc.'s trademark for stretchable paper.

Circle 49 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

Reusable Containers Give Top Protection

Lightweight reusable shipping containers made of vulcanized fibre are strong, durable, give maximum protection even for delicate loads. There are three types. The standard padded one has a surrounding layer of padding, covered with canvas and mounted on mahogany plywood. Your choice of padding. The dunnage board type protects equipment that straps to the board. The shock cradle type suspends the product by shock mounts. All come with solid fibre or sandwich panel sides, hinged lids, and metal reinforced edges.



National Vulcanized Fibre Co.

Circle 145 on Reader Service Card

Balloon-Like Dunnage Cuts Damage

Latest models of Brace-Fast inflatable dunnage bags have several improvements that make them lighter and stronger than earlier ones. The bladder has been eliminated, and with it the access hole needed to insert it. These changes make the bags lighter. They're now made in one piece, built like a tubeless tire. They're made of 13-ounce ballistic nylon with reinforced seams, coated

MORE VALUE for LESS MONEY



FULLY HYDRAULIC

BT PALLET TRUCKS

**The Lift Truck That
Costs Less—Works Best**

Now **\$350⁰⁰**
Only **\$350⁰⁰** F.O.B. Chicago

Extra rugged construction for Heavy Duty use. Precision built, BT fork-type PALLET TRUCKS are fully hydraulic, easy to use, highly maneuverable. Pivots 90°, both directions. SKF ball-bearing wheels, (available in steel, rubber or Bakelite). For single or double face pallets and skids. Lowered Height: 3 1/4" - 5" Lift. A real buy.

Model BT-24
2400 lb. Capacity.....\$350⁰⁰

Model BT-44
4400 lb. Capacity.....\$395⁰⁰

WRITE — WIRE — PHONE

**YOUR CHOICE OF SIZES
IN EITHER MODEL:**
Fork Widths: 20 1/2" or 27"
Fork Lengths: 36", 42" & 48"
(Specify width, length and
wheel type when ordering)
(Dealer Inquiries Invited)

INDUSTRIAL HANDLING EQUIPMENT CO.
1219-33 West Monroe • Chicago 7, Illinois • MOnroe 6-8554

Circle 51 on Reader Service Card

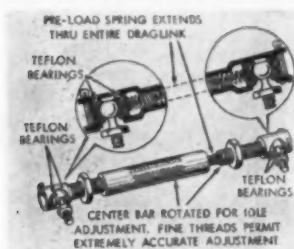
MATERIAL HANDLING ILLUSTRATED

with 0.024" Neoprene outside and 0.036" Neoprene inside. These changes make them stronger. Also, handles have been added and valves improved. Inflatable dunnage bags replace conventional lumber dunnage and bracing in rail and truck shipments. Just insert them uninflated, in the voids between loads. Then inflate with low pressure air to take up the voids, holding loads gently but securely. They come in several sizes. You use about 2 bags per carload.

New York Rubber Co.

Circle 146 on Reader Service Card

Carburetor Control



Teflon bearings require no lubrication.

A drag link assembly features Teflon bearings, doing away with metal to metal contact. This helps reduce governor load, allowing better carburetion control for LPG carburetors. The assembly also has a single-action, extremely accurate idle adjustment. Special nuts tighten the center assembly which rotates on fine threads. Teflon

Century Gas Equipment
Marvel-Schebler Products Div.
Borg-Warner Corp.

Circle 147 on Reader Service Card

Don't Guess About Shock Damage



You can tell the exact amount of shock your product can withstand by using the Impact-O-Graph impact recorder. It consists basically of a pendulum whose movements are recorded on a tape by a stylus, and a transparent case made of butyrate plastic. Just place it inside the package and it records shocks in any direction, showing

ing acceleration, deceleration, impact, etc. over a wide range of G intensities. You can trace the source of damage in transit as well.

Impact-O-Graph Corp.

Circle 148 on Reader Service Card

2-Section Work Stand



The Hi-Lo Work Stand can be used where step platforms are impractical. Made in 2 sections, one section is hinged to the main section to give it a work height of 2 or 4 ft as desired. In either position, a flat work top is available. The unit is light, weighing only 120 lb. It's easy to move in any direction by two large rubber wheels. Can be obtained either in magnesium alloy or aluminum. Treated plywood tops are standard. Special

metal work tops can be provided if required.

Forces Incorporated

Circle 149 on Reader Service Card

Cellophane Tape Comes Fresh Every Time

A red and white foil package protects every roll of Permaceal 44 cellophane tape from dust, dirt, and moisture. Each roll is



LEASE... RENT... or BUY

Your Material Handling Equipment

Towmotor Corporation and its subsidiary Gerlinger Carrier Company offer you three simple ways to improve your material handling operations . . . realize immediate savings . . . and accomplish this with little cash outlay.

1. You can put Towmotor-Gerlinger material handling equipment — fork lift trucks and material carriers — to work on a continuous round-the-clock basis through the Lease-A-Truck Plan. No down payment—no working capital tied up—just a small monthly charge.
2. You may also rent Towmotor-Gerlinger equipment on a short-term basis—as peak or seasonal demands require. You will start lowering handling costs immediately.
3. You can own new Towmotor-Gerlinger equipment by making reasonable monthly payments through our Time Payment Plan. Low interest rates make it easy.

Complete factory supervised maintenance can be included in any of the above plans.

You'll find Towmotor-Gerlinger handling economies consistently pay the small monthly cost many times over. For complete information on any of these profitable, money saving plans, write or contact Towmotor-Gerlinger Rental Division, Towmotor Corporation, Cleveland, Ohio.



FORK LIFT TRUCKS, CARRIERS AND TRACTORS SINCE 1919

Gerlinger Carrier Co. is a subsidiary of Towmotor Corporation

Circle 84 on Reader Service Card



...it's a MAGLINER!

What's a Magliner got that workers want? Lighter lifting, easier handling, easier wheeling! Three big features that add up to *more loads moved at lower cost*. Facts prove it! Tough too! Magliners are built to take rough usage under any conditions—on trucks, or loading docks, in the plant or warehouse. Are you using light, strong Magliner Magnesium Hand Trucks in your operation?

WRITE FOR BULLETIN HT-101.

MAGLINE INC., P. O. BOX 264
PINCONNING, MICHIGAN
Canadian Factory: Magline of Canada, Ltd. Rexford, Ontario

MagLiner
MAGNESIUM
HAND TRUCKS

FISCHBEIN LOW COST EFFICIENT BAG CLOSERS

AUTOMATIC MODEL BA-6

Bags start the sewing operation when they reach the head. After sewing, thread is cut automatically and conveyor belt continues to move bag. Instantaneous start/stop controls.

WRITE FOR COMPLETE CATALOG FILE OF BAG CLOSING EQUIPMENT

DAVE FISCHBEIN CO., Dept. MH
2720 30th Ave. S., Minneapolis 6, Minn., U.S.A.

Circle 40 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

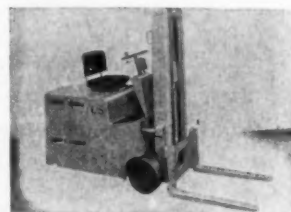
packed in an individual package to insure freshness when you use it. In addition to protection, the foil packs make the tape easier to store and handle. No. 44 clear cellophane tape is extremely thin, has high tensile strength and excellent edge tear resistance. The pressure-sensitive adhesive is made to give good adhesive for a variety of surfaces, and good unwind characteristics. The backing resists grease, oil, and solvents.

Permacel

Circle 150 on Reader Service Card

Spots Load Exactly

An electric fork lift truck comes in 30 different models with capacities of 1,500, 2,000, 3,000, and 4,000 lb. It features an Inchomatic drive system for exact load spotting either in forward or reverse. The elevating assembly, torsion-resistant, has an I beam mast, anti-thrust fork carriage, hoist ram with precision plunger, dual mast tilt cylinders, and extra free lift. There are four individual braking systems: electrical dynamic braking, electrical controlled plugging, hydraulic foot brakes, and safety seat deadman brake.



Lewis-Shepard Products, Inc.

Circle 151 on Reader Service Card

The Key To Fast, Safe Mechanized Material Handling At Freight Docks



ROWE Adjust-A-Dock

■ To improve service and reduce handling costs, F. W. Woolworth uses 12 fully-adjustable ROWE hydraulic docks. Raised or lowered to the level of the truck bed, the Adjust-A-Dock cuts costs by speeding the handling of 100 truck loads of merchandise in an eight-hour shift.

The Rowe Adjust-A-Dock is a rugged, self-contained unit built for long trouble-free service and minimum maintenance.

Write for our new free catalog.

ROWE METHODS, Inc.

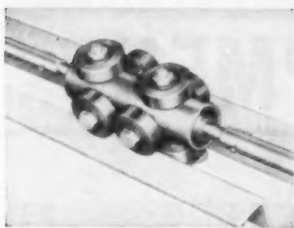
2534-T Detroit Ave.

Cleveland 13, Ohio

Circle 79 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

Chainless Trolley



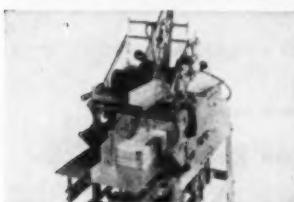
type installations, inversion for use with pans or pallets, and for use with pusher systems.

An eight-wheel "Chainless" conveyor trolley is connected by steel rods with ball and socket joints. Either light or heavy duty wheels may be used. Line pull is directed through the trolley centerline. This trolley eliminates sprocket and roller corners. The company says it is suited to overhead or sub-floor two-

*The Conveyor Division
The American Monorail Co.*

Circle 152 on Reader Service Card

Automatic Labeling for Round Containers

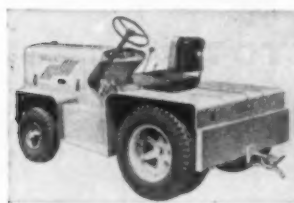


container from 1½" to 7" diameter and up to 9" long. No change-over of parts when switching from spot to wraparound labels or vice versa. The unit has an oversize glue reservoir. Hinged top bracket makes glue pan easily accessible for cleaning.

Long & Co., Inc.

Circle 153 on Reader Service Card

Yale Enters Heavy Duty Tractor Field



This heavy duty industrial tractor marks the company's progress into a new field. The tractor has pneumatic tires, is powered by gasoline or LP-Gas. It is being sold in 3000, 4000, and 5000 pound drawbar pull capacities. Overall length is 102½ inches; turning radius is 122 inches. A 72 hp, 6 cylinder Chrysler industrial engine powers the new tractor line. The power is transmitted through an 11-inch clutch and fluid coupling to a four speed forward, one reverse, synchromesh transmission. Normal travel speeds are 13.6 mph forward and 1.8 mph reverse.

Yale Materials-Handling Div., Yale & Towne Mfg. Co.

Circle 154 on Reader Service Card

Tire Is Laminated



A laminated industrial tire is formed with 200,000 lb of pressure on the circumference. To form the laminations, pads compress on a pre-bent steel band. A new band has only one hole at each end instead of two. This keeps the pressure on the pads from lessening and the band from breaking. Another type of laminated tire uses a leaf chain. One type of chain is rated at 65,000 lb and another, at 45,000 lb for smaller tires. These tires go on yard trucks, cranes, crawlers, and machinery for operations in which an ordinary tire would be chewed to pieces.

Mitchell Industrial Tire Co.

Circle 155 on Reader Service Card

Available NOW for the FIRST TIME •STANDARD SIZE Corrugated STEEL BOXES



Item No.
B-1900

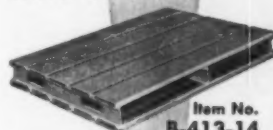
\$74.80

F.O.B. Detroit

IN STOCK • 33" x 48" x 24" deep • 4" underclearance • corrugated all-steel welded construction • square corners • stacking pockets • four-way entrance

•STANDARD Steel PALLETS Single and Double Faced

In two sizes • four-way entrance • reinforced all-steel welded construction



Item No.
B-413-14

Double faced
TWO SIZES

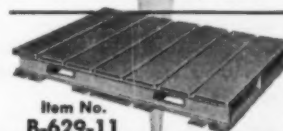
1. 48" x 40" ..\$32.20
2. 48" x 48" ..\$39.25

Single faced
TWO SIZES

1. 48" x 40" ..\$26.65
2. 48" x 48" ..\$30.35



Item No.
B-539-15



Item No.
B-629-11

Double faced
TWO SIZES

1. 40" x 48" ..\$42.10
2. 48" x 48" ..\$46.90

All prices f.o.b. Detroit, Mich.

DESIGNED AND MANUFACTURED BY

Palmer Shile Co.

Offices in
Principal Cities

16047 FULLERTON AVE., DETROIT 27, MICH.

Export Division—75 West Street, NEW YORK 6, N. Y.

Circle 71 on Reader Service Card

Circle 52 on Reader Service Card

A DOCKBOARD ONE MAN CAN LIFT!

the Original LANGSENKAMP
**SUPERSTRENGTH ALUMINUM
DOCKBOARD**



**STRONGER THAN STEEL PLATE...YET
THREE TIMES LIGHTER!**

Amazing sales history : write for our
proves its popularity : new folder:
"DOCKBOARD 1960"

F. H. LANGSENKAMP CO.

227 E. SOUTH ST. • INDIANAPOLIS 4, INDIANA

DOLIN MOBILE STORAGE SYSTEMS



CAN SOLVE YOUR SPACE AND STORAGE PROBLEMS

ABOVE—Mobile stock parts installation reclaimed app. 13,000 sq. ft. of valuable factory floor space for productive use.

LEFT—Aircraft stock parts were actually tripled within original supply area with this mobile system.

ONLY 1 AISLE FOR 6, 8 OR MORE ROWS! Aisle elimination is our proven method of "wall-stretching." Write for "IDEA KIT."

FREE LAYOUT SERVICE DEPT. MHI

DOLIN METAL PROD., INC.

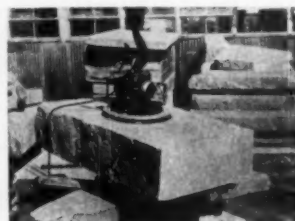
315-21 LEXINGTON AVE.
BROOKLYN 16, N. Y.

Circle 28 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

Pad Raises 2,400 Lb

A self-contained single pad unit lifts barrels, stone, concrete, sheet and plate steel, and other nonporous material. The standard unit is 18 inches high with a 16-inch diameter pad and neoprene seal ring. It lifts up to 1,200 lb in horizontal lift and up to 600 lb in shear position. Other pads range from 8 inches with a 300-lb capacity to 24 inches with 2,400-lb capacity. The pad unit uses a 1/3 hp self-contained pump and motor.

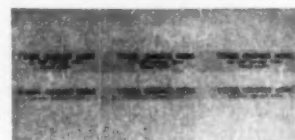


Vac-U-Lift Co.

Circle 156 on Reader Service Card

Print Your Message on Reinforced Tape

Permacel 165 Strap-It Tight Band Tape can be printed on the adhesive side of the tape, completely protecting the message from rubbing or scuffing off once the tape is applied. It's made of Mylar with nylon strand reinforcement. It's strong, transparent, and waterproof. This tape



Stack-n-Nest® TOTE PANS



- Carry bigger payloads . . . tested to 3000 lbs. safe static load.
- Work efficiently . . . here are 373 pans nested in 13 sq. ft. of space, with room to spare.
- Stack high with perfect safety.
- Need no maintenance. These smooth, one-piece Fiberglass pans won't rust, dent, or burr out . . . unaffected by oil, water, and most chemicals.
- Stack and nest within their own dimensions without gadgets.
- In stock at Lewis . . . all sizes ready to ship to your order within 24 hours.

Patented 2,823,828; 2,823,829

Widest range of sizes and colors . . . write for complete details TODAY!

G.B. Lewis COMPANY

704 MONTGOMERY STREET • WATERTOWN, WISCONSIN

Circle 53 on Reader Service Card

has an elastic memory; it recovers almost completely after stretching. Its Mylar backing makes it abrasive resistant for the toughest packaging uses.

Permacel

Circle 157 on Reader Service Card

Electric Fork Lift For Outside Work



Called the Hustler Outdoorsman, this dual pneumatic electric fork lift truck was especially designed for outside work. On test for the last three years, company says it's the first of its type in the material handling field. It has a battery capacity to 720 amp hours, and handles 2,000-lb loads over an eight hour shift on rough terrain. It features low seating, and ease of operation. Has four speeds forward and reverse with non-plugging controls. Company says this truck has excellent adaptability to indoor-outdoor work.

The Heifred Corp.

Circle 158 on Reader Service Card

Plastic Foam Answers Many Needs

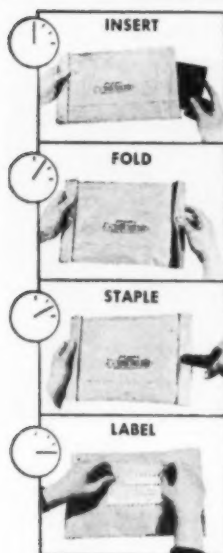
Now you can get rigid or flexible plastic foam for packaging in any shape up to 8' x 4' x 20". It weighs as little as .85 lb per cubic foot, and protects against shock, heat, or water. The flexible kind can be rolled, twisted, or bunched like cloth. Both are odorless, non-toxic.

Plastifoam Corp.

Circle 159 on Reader Service Card

jet-pak®

CUSHIONED-INSULATED SHIPPING BAG



SPEED

CUTS DIRECT LABOR COST!

Only 15 seconds or less to package semi-fragile small units—ready for mailing! Simple and complete—JET-PAK eliminates all waste motion—speeds packaging process—cuts labor time to the bone. JET-PAK cushions contents with millions of tiny paper particles held between double-walled, asphalt-laminated KRAFT—completely protects against damage, rain, heat or cold. Security cleared by U.S. Post Office drop tests. Inexpensively imprinted at factory. Very inexpensive to buy. See for yourself.

Send for set of free samples—Today!

Clip this advertisement to your letterhead and mail to:



jet-pak
Packaging Division
Columbian Rope Company
Auburn "The Cordage City" N. Y.

Circle 26 on Reader Service Card



with C & D Slyver-Clad® batteries!



You can make your electric trucks more efficient than ever by equipping them with an advanced design power-package—C & D Slyver-Clad® battery with Hi-Impac covers and containers.

The premium C & D Slyver-Clad® batteries have the longest, thickest plates in the industry—that means extra capacity. They have five layers of insulation and retention that almost end shedding and thus provide extra-life at full capacity. And, the Hi-Impac cell containers and covers, a C & D exclusive feature, are practically unbreakable.

Trucks equipped with C & D Slyver-Clad® batteries with Hi-Impac work longer between charges, live longer and resist physical damage. Get the full story on C & D—your better battery buy. Write for Bulletin IT-530.



C & D BATTERIES
of Conshohocken, Pa. ... Attica, Ind.
DIV THE ELECTRIC AUTO-LITE CO

Manufacturers of Slyver-Clad® Industrial Batteries

PlastiCell® and PlastiCal® Batteries for Communications, Control, and Auxiliary Power
Producers of AutoReg® Silicon Chargers and AutoCal® Charger-Battery Combinations

*Trademark

Circle 18 on Reader Service Card

Circle 30 on Reader Service Card

Multiple Service

VERSATILE
General Utility
Truck

FOR
**BAGS-KEGS
DRUMS
BOXES
CRATES**
and
**COMPACT
HEAVY
OBJECTS**

Ideal
for truckers



Model
60-R
All-Steel

STRONG • RUGGED

Heavy Bar Nose • 8" Long • 12" Wide
48-inch Handles

8x2.00 DICO Heavy Duty, Roller Bearing
Wheels with Vulcanized-on Rubber Tires

600 lb. Cap. • Weighs 44 lbs.



DICO

WANTED!

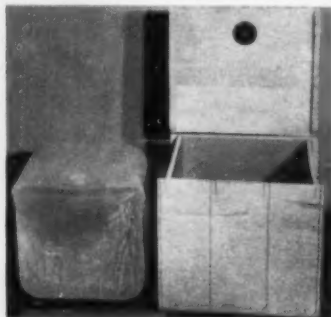
Aggressive stocking distributors for the modern line of DICO Hand Trucks, Barrel-Handling Equipment and Industrial Wheels.

223 S.W. 16th Street
DES MOINES 5, IOWA

WHAT'S NEW IN EQUIPMENT

Box Holds Liquids

A 15-gallon Cubitainer is now available for single trip shipment of liquids. You can use it for both regulated and non-



Circle 160 on Reader Service Card

regulated materials. It consists of a cube-shaped polyethylene insert and an outer wire-bound box. It's rugged, light, low-cost, and easy to handle. It has a replaceable cap closure and can withstand 4-foot drops and vibration tests without leakage. Easily adaptable to standard filling and handling methods.

Hedwin Corp.

Straddle Lift Stacks Fast

A 24-volt rider model is designed for fast stacking in narrow aisles. The RST comes in 1,000, 2,000, 3,000, and 4,000-lb



Circle 161 on Reader Service Card

capacities. While standing on the platform, the operator easily steers with his left hand. Forward-reverse travel and fork lifting and lowering controls are in front of the operator, combined in one lever. A dead-man brake works by a pedal on the platform. When the pedal is released, the brake is on. When the operator depresses the pedal, the brake is off. Thus, the truck won't move when unattended. The large drive wheel is rubber tired.

Barrett-Cravens Co.

Compact Martin-Decker CRANE SCALES



ONLY 13-7/16"
HEAD ROOM LOSS

CAN MATERIALLY INCREASE WAREHOUSE CAPACITY

- Require less Head Room than any comparable unit
- High Safety Factor (5 to 1)
- Low Cost
- Light Weight
- Accurate
- Easy to Read
- Easy to Handle

WRITE FOR DESCRIPTIVE BULLETIN V-30
Martin-Decker Corporation
3431 Cherry Ave., Long Beach 7, Calif.

**MARTIN
DECKER**



Precision Pressure Instruments—
Testing—Weighing—
Load and Force Measurement

Circle 55 on Reader Service Card

CUT HANDLING COSTS • • • STOCK MORE IN LESS SPACE

Low-Cost Flexible Stackbin System
Saves Space, Time and Labor

Stackbin®-Stackrack® Combinations are the ideal way to minimize parts, tools, materials handling. Stackbins are portable containers, so you can carry materials throughout your process without transferring contents to any other container. Stored in Stackracks, every Stackbin is instantly accessible when it's needed. You never disturb another bin. Hopper fronts on Stackbins provide visibility and accessibility to the materials. Available in 7 sizes, Stackbin-Stackrack Combinations make most efficient use of floor space. With inexpensive Adapters any small units can be stacked on larger units. Related items can be kept in one place. Individual units lock together: no tools, no setup time needed.



WRITE FOR NEW CATALOG

All Stackbin Products Sold Direct
STACKBIN CORPORATION
1303 Main St., Pawtucket, R. I.

Mfgd. and sold in Canada exclusively by Wickware-Stackbin, Ltd., Perth

STACKBIN



SYSTEM

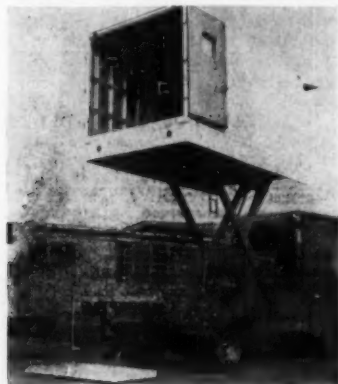
"Stacked and

"Still Accessible"

Circle 72 on Reader Service Card

Tailgate Lifts

A lifting tailgate comes in handy when there is no loading dock or mechanical means to move heavy cargoes into a high



Circle 162 on Reader Service Card

lift body. This Weightlifter elevating tailgate provides loading to and from ground level when the body rests on the truck frame. The elevating tailgate mounts easily with any high lift body because of a bumper-floor extension principle. All controls are pre-assembled into the protective floor extension. The tailgate has lifting capacity of 1,300 lb.

H. S. Watson Co.

Automated Bar Shear

This fully automated handling system for a bar shear consists of an automatic

bar feeding system, a take-away system, a container loading system, and an automatic container handling system. Both



Circle 163 on Reader Service Card

the feeder and the take-away systems are built around conveyors. The cut bars are automatically loaded into a container which is carried away by a shuttle conveyor.

Spurgeon Co.

Boom Lifts Lumber

A fork truck attachment mechanizes handling of lumber, plywood, and wall-board. Called the Mod-U-Lift, it's a



Circle 164 on Reader Service Card

tubular boom which slips over the forks of the truck. At the end of the boom is a swivel load carrier that turns full

Circle 81 on Reader Service Card

SERVIS RECORDERS

Installed on 17 Lift Trucks



Clocks
busy
and
idle
time

**SAVED \$40,000
A YEAR**

Everybody was Happy!

WORKERS no longer complained—they knew the Servis Recorder work record was right.

OTHER DEPTS. received lift trucks re-assigned due to new efficiency.

DEPT. HEAD received cash award for efficiency.

MANAGEMENT . . . well, \$40,000 ain't hay! Management thinks Servis Recorders are wonderful—in fact bought 30 more. (Name of company on request.)

YOU can profit with Servis Recorders, too. Write for literature.

SERVICE RECORDER CO.
1015C Rockwell Ave., Cleveland 14, Ohio

READY-POWER Units Cut Ton-Mile Costs for All Types of Electric Trucks



Gasoline, LP Gas and
Diesel Electric Models
Power Trucks from
Walkies to Steel Handlers



Walkies



Ram Trucks



Fork Trucks



Narrow Aisle Trucks

Ready-Power offers a complete range of power units that increase work output and cut ton-mile costs for all makes and models of electric trucks. Ready-Power units generate electric power on demand. They assure full power at all times, for unlimited periods, eliminate truck slowdown. Ready-Power units are easily installed on new or used trucks. For full information, write for new Bulletin 99-A.



READY-POWER

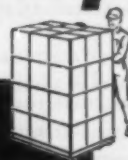
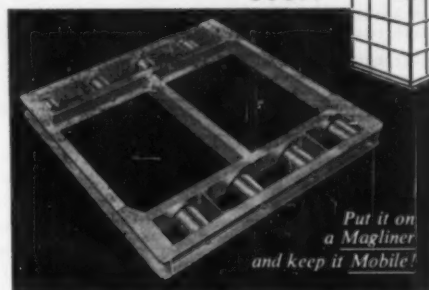
The READY-POWER Co., 3844 GRAND RIVER AVE., DETROIT 8, MICH.

Manufacturers of Gas and Diesel Engine-Driven Generators and Air Conditioning Units; Gas and Diesel-Electric Power Units for Industrial Trucks

Circle 80 on Reader Service Card

LOADmobility

... AT LOWEST
COST!



Put it on
a Magliner
and keep it Mobile!

ECONOMICAL—On the dock, in the plant, wherever loads must move, put 'em on Magliner Pallet Dollies and they're *always* ready to roll . . . where and when you need them!

LIGHT WEIGHT—Magnesium light, easily carried by one man. Dollies get back to loading point faster, save time and money!

STRONG—Rugged, all-welded construction. 2,000 and 4,000 lb. capacities. Large 3 1/2" ball-bearing rollers. Available in 14 standard sizes.

WRITE FOR BULLETIN PB-1

Magline Inc., P. O. Box 394, Pinconning, Michigan

Magliner Magnesium PALLET DOLLIES

Circle 61 on Reader Service Card

Circle 19 on Reader Service Card

As Little as \$285 Makes Your Hoists and Cranes Into Fork Lifts



You can now handle pallet, coil and other unit loads where fork trucks are too expensive or impractical. America's foremost industries are saving thousands of dollars in first cost, handling cost, operating cost and maintenance cost with Cady Pallet, Coil, and Pipe Lifters. Repeat orders are proof of satisfaction. Counterbalanced to hang level, they are easy to use and reduce nonproductive handling costs in plants, in yards, on docks and on job sites. Standard Pallet Lifters up to 10,000 lbs. capacity, Coil Lifters up to 40,000 lbs. capacity, and Pipe Lifters up to 15,000 lbs. capacity. Custom models to fit special conditions. Write or phone for helpful application recommendations.



CADY METAL FABRICATING, INC.
85 Schenck St. N. Tonawanda, N. Y.
Jackson 4145

WHAT'S NEW IN EQUIPMENT

circle. The carrier lifts modular pack of lumber at the center. Thus, 20-ft long loads can be loaded or unloaded in boxcars with 6-ft-wide doors. The Mod-U-Lift, with a load capacity of 1,000 lb, requires a 4,000-lb lift truck. The combination can handle unit loads of 400 bd ft of lumber or 1,200 sq ft of 1/4-inch plywood or wallboard.

Little Giant Products Inc.

Low Fork Lift

Three battery powered, low silhouette fork lift trucks have been added to the "Clarklift" line. They are capable of



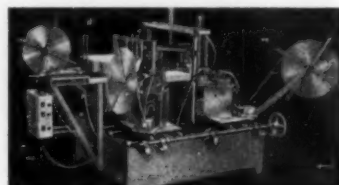
Circle 165 on Reader Service Card

double stacking freight in truck trailers. They have a seat height of 34 inches and an overall height of 71 inches to the top of the overhead guard. The trucks, called the ECLS series, are available in capacities of 2000, 3000, and 4000 pounds. Free lift in the uprights permits in-truck stacking as high as 51 inches in a 72 inch high trailer.

Clark Equipment Co.,
Industrial Truck Div.

Need Cartons Fast?

Here's a machine that automatically applies metal stays to all four corners of a carton at the same time. It turns



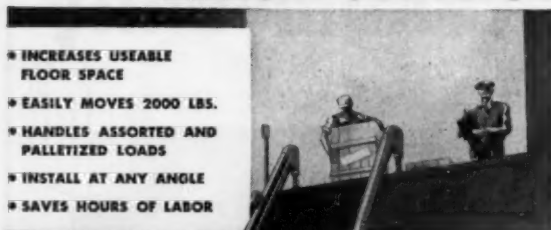
Circle 166 on Reader Service Card

out up to 2,000 cartons an hour. Carton sizes may vary from 17 1/8" x 17 1/8" x 11/16" to 20" x 20" x 6". Called the Quatre Metstay, it's 2/3 cheaper than making cartons manually. Special Metstay has center ribs rather than perforations. They're stronger, better looking, and make lids easier to slide on and off than conventional stays.

Crowell Carton Div.,
St. Regis Paper Co.

New MOTO FLOW FREIGHT CONVEYOR

- * INCREASES USEABLE FLOOR SPACE
- * EASILY MOVES 2000 LBS.
- * HANDLES ASSORTED AND PALLETIZED LOADS
- * INSTALL AT ANY ANGLE
- * SAVES HOURS OF LABOR



Your profits go up... handling costs down with Moto Flow, a fast, efficient, and safe system for floor-to-floor material handling both inside and outdoors.

Easily turns a limited use upper floor or basement into a productive, fully useful area. Send for complete details today.



M-B CORPORATION
New Holstein, Wisconsin
QUALITY EQUIPMENT SINCE 1907

Circle 56 on Reader Service Card



POTDEVIN Label Paster

Available in 6", 8 1/2", 12" and 18" widths.



POTDEVIN MACHINE CO.
266 North Street • Teterboro, N. J.

Designers and manufacturers of equipment for Bag Making, Printing, Coating, Laminating, Gluing and Labeling

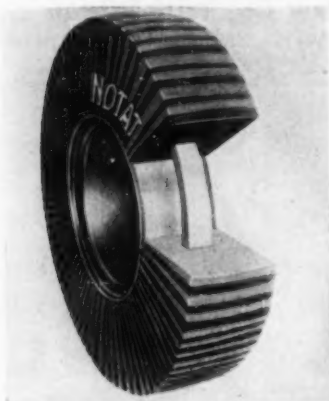
Time savings of 30% and more with unskilled operators makes your POTDEVIN Label Paster quickly pay for itself. No adjustments required for varied shaped labels. Accurate control of adhesive minimizes waste and assures clean, neat labeling.

Circle 73 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

Laminated Nylon Tire

A nylon tire has been added to a line of vertically-laminated tires for operation over sharp stones, metal shavings and



Circle 167 on Reader Service Card

scrap, brick, and glass. These tires are flat free. They go on lift trucks, front end loaders, tractors, rotary cutters, cranes, and others. They make the tires from fabric banded together with rubber and an internal steel band under high pressure. This not only gives long life, but a soft, bounce-free ride.

Notat Tire Co.

Used Inside Or Out

An all-purpose 1,000-lb lift truck handles jobs inside and outside the plant. It

is battery-hydraulically operated. Featuring pneumatic tires, it offers telescopic



Circle 168 on Reader Service Card

lifting to 110 inches. Its door clearance is 78 inches. The heavy duty 12-volt system includes a self-contained battery charger. There is complete bearing control throughout.

Big Joe Manufacturing Co.

Simple Tool Spots Rail Cars Where You Want Them

You can position rail cars anywhere along your siding, moving them at will, with the Jones Type OP car spotter. It's designed so that the wire pulling rope is neatly reeled around a drum, eliminating the safety hazard of spotters that coil the

Circle 66 on Reader Service Card

MORSE Model 80 Barrel-Lift

Now... one man can safely handle liquid drum loads from 500 to 1,000 lbs.—raise, rotate, transport, tilt and drain 55 gal. drums. The mess, expense and hazards of spills, leaks, overflow and drum damage are eliminated. Sturdy, all steel welded construction... rubber tired wheels with ball bearings and rubber tired rear caster.



MAN • MINUTE • MONEY SAVERS!

MORSE Model 85 Drum-Karrier

Provides complete control. Easy one-man operation. Attaches to any monorail hoist... for all double chine drums 23" in diameter, 36" in height. Positive tilt locks hold drum in vertical position for carrying... provide control of tilt for mixing or dispensing. All steel welded construction.



Clip this ad to your letterhead



MORSE
MANUFACTURING CO., INC.
759 West Main Street, East Syracuse, N. Y.

IDEA FOR LOW-COST PRODUCTION LINE

Build your own assembly lines with inexpensive angle-iron tracks and these novel Bassick grooved wheel casters. They give you easy flow of parts and finished products... better utilization of floor space... economical means of handling heavy loads... money-saving protection of floor surfaces. Equally useful in solving materials handling and product assembly problems. 8-page brochure gives the facts. THE BASSICK COMPANY, Bridgeport 5, Conn. In Canada: Belleville, Ont. 0.4



Circle 13 on Reader Service Card

WANTED

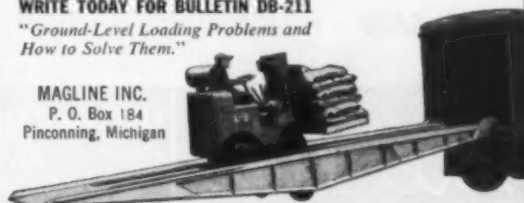
COMPANIES WITH HIGH-COST GROUND-LEVEL LOADING PROBLEMS

Limited Dock Facilities? Ground Level Plant? Yard Loading? Outlying Railcars?

Problems? Not with a Magliner Mobile Loading Ramp on the job! A loading dock on wheels, Magliner Loading Ramps are quickly, easily moved where and when they're needed. Just one man, a power truck and a Magliner... and loads move in a steady cost-saving flow, in any kind of weather! Magliner's exclusive new non-slip grating tracks assure positive power truck traction—prevent slippage caused by snow, sleet, rain, oil, grease build-up, etc. Made of light, strong, magnesium, Magliners are ruggedly built for long-life service. Standard models load-rated up to 16,000 lbs... more if you need it.

WRITE TODAY FOR BULLETIN DB-211
"Ground-Level Loading Problems and How to Solve Them."

MAGLINE INC.
P. O. Box 184
Pinconning, Michigan



MAGLINER MOBILE LOADING RAMPS

Circle 59 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

rope at the operator's feet. The operator never needs to touch the rope with this machine. If you want, you can get it equipped for remote control operation. The spotter comes in two sizes: Model 1006-OP5 has a 5 hp motor and $\frac{3}{4}$ " rope. Model 1308-OP7.5 has a $7\frac{1}{2}$ hp motor and $\frac{1}{2}$ " rope.

Hewitt-Robins

Circle 169 on Reader Service Card

Spark Protected Truck

The battery-powered, stand-up, end-control Docker can now be furnished with Underwriters' Laboratories Type EE



Circle 170 on Reader Service Card

spark protected label. Type EE trucks many be used in places where there is danger of explosion from sparks. The Docker has all its switches, controllers, and contactors enclosed in a steel case mounted on the battery compartment cover. The truck is available in capacities of 1500 to 3000 pounds, and 24 and 30 volts.

Automatic Transportation Co.

Keeps Bags Free of Damage

This two-wheel hand truck is designed for easier and safer handling of bagged products. Its nose plate is now made with



Circle 171 on Reader Service Card

aluminum for lighter weight and has a non-slip surface. Its rounded axle ends have snap rings in place of cotter pins to

prevent damage to bags. All edges and corners of load bearing surfaces are smoothly rounded.

Nutting Truck and Caster Co.

New Cat With Wheels

All lift arms and hydraulic cylinders are located ahead of the operator on Caterpillar's new 944 Traxcavator

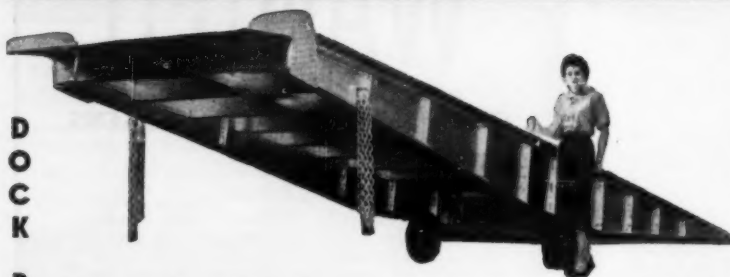


Circle 174 on Reader Service Card

Wheel Loader for greater safety. Ample powered at 105 net hp, gas or diesel, unit has 2 cu yd welded bucket. Numerous design features include: hydraulic-controlled power-shift transmission; 40 gpm vane-pump hydraulic system; power steering; and power brakes. Front tires just beyond frame to eliminate damage to trucks while loading. Dumping height is 9 ft; reach is 32 inches.

Caterpillar Tractor Co.

lite-line Mobile Yard Ramps



The dock that goes to the job will cut your loading costs

A Lite-Line Yard Ramp moves easily into position, to load or unload truck or rail car.

SAFE • RUGGED • LIGHTWEIGHT

For complete information write to

lite-line
MAGNESIUM DOCK EQUIPMENT

LITE-LINE METAL INDUSTRIES
DIVISION OF
COPPERLOY CORP.
Cleveland 35, O.

Circle 27 on Reader Service Card

New London PARTS CONVEYOR

A PRODUCTION PARTNER IN ANY PLANT



Husky, electric motor drive. 4" to 24" Neoprene cleated belts or wire mesh belts for horizontal or incline operation. Easily handles parts and some bulk materials. Adjustable, detachable undercarriage.

Write for complete information on our entire line of low cost, quality conveyors... or name of nearest representative.

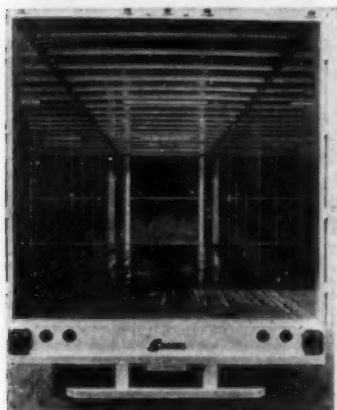
NEW LONDON ENGINEERING CO.

PHONE 1000 DEPT. MHI
NEW LONDON • WISCONSIN

Circle 69 on Reader Service Card

Aluminum Trailer Has Bonus Space

Here's an extra-capacity aluminum trailer with 94-inch load width. It has wider, flatter posts than average, shallow



Circle 175 on Reader Service Card

roof stiffeners, a 1-piece roof, oak floors, built-in rear drain trough, and other extras. Capacity is 2,600 cu ft of low density or dry cargo.

Brown Trailer Div.
Clark Equipment Co.

Bands For Steadying

Try pallet bands to steady cartons and other merchandise on pallets. They're

large rubber bands, 36 inches long and up. Stretch them around the top layer of a pallet to keep cartons from tumbling off the stack. They also permit higher stacks without falling cartons. You can adjust the bands with a sliding buckle, allowing one band to serve different size stacks. And the bands are reusable.

S. Dombroff & Sons

Circle 176 on Reader Service Card

Automatic Bag Filler Needs No Power

You can fill any size bags automatically with the Rotomatic open-mouth bag packer. It is fully automatic, all mechani-



Circle 177 on Reader Service Card

cal, and needs no outside power sources such as air or electricity. The Rotomatic combines gravity operation with

the even-balance scale principle. It's accurate, fast, and easy to operate. It handles 40- to 100-lb bags, and size changes take less than a minute. Speed is unlimited, restricted only by the operator's speed at feeding bags to the filling tube.

Raymond Bag Corp.

Tape Code-Printed

Find out about the latest electric and manual sealing machines for code-printing tape by Better Packages Inc. A 12-page booklet tells how to operate the CodeTaper which lets you print contents, identification, production or packing dates, and other things on the tape as cartons are sealed.

Better Packages Inc.

Circle 178 on Reader Service Card

Trucks For Every Plant And Warehouse Need

These trucks are engineered and made for specific plant and warehouse material handling problems. Includes underslung trailer for drums, barrels, and other heavy units; heavy duty die truck for moving dies, jigs, fixtures, forgings or stampings; heavy duty trailers; book trucks where drying and curing sheets or parts must be separated; and utilities racks on wheels. All are designed and built to customer specifications for any handling use.

Palmer-Shile Co.

Circle 179 on Reader Service Card



DISOWHEEL® "STANDARDS"

Now available
for all industrial uses
Save dollars, time, floors!

Wherever an industrial wheel is needed, Disowheel "Standards" can go to work for you. Now available in a complete range of standard sizes for a wide variety of industrial uses, the wheel will take big loads without failing, will not damage or mark floors, including vinyl tile, and will outlast most other wheels by a wide margin. Whether for hand trucks, trailer trains, conveyors, rolling cranes, or anywhere a wheel is needed, Disowheel "Standards" will prove unbeatable. Contact your local dealer today or write direct.

ISOGRIN INDUSTRIES
510 SOUTH FULTON AVENUE • MOUNT VERNON, NEW YORK
Offices & Distributors in Principal Cities

Circle 31 on Reader Service Card

You can
**BUILD
CHANGE
EXPAND
MOVE**
your storage racks
with only a
**HEX KEY,
HACKSAW
and
RACKMASTER®
FITTINGS**

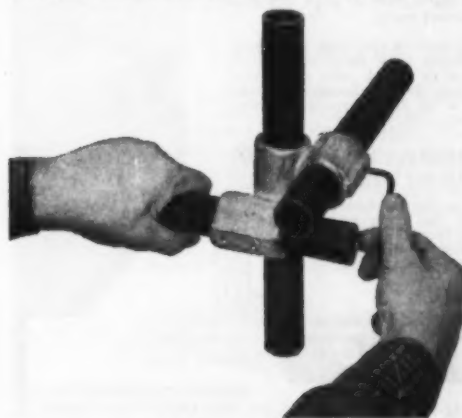


RACKMASTER FITTINGS cut rack-building time as much as 60% by eliminating threading and welding. They cut other rack-building costs, too—

- pipe is 100% salvageable
- pipe-cutting is reduced to a minimum
- regular warehouse crews can build racks
- slip-on feature simplifies design and construction

RACKMASTER is stocked by leading distributors. Write for details on Rackmaster and multi-purpose NU-RAIL Fittings Bulletin M-32

THE HOLLAENDER MANUFACTURING CO., 3841 Spring Grove Ave., CINCINNATI 23, O.



Circle 46 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

Giant Transfer System Speeds Piggyback

The Travelift carrier transfer system is designed for fast, low-cost handling of piggyback and other containerization con-



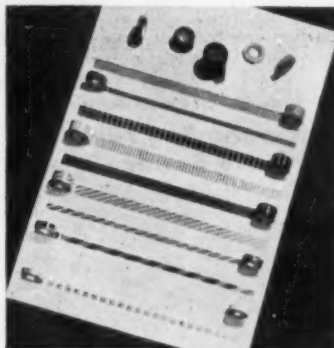
Circle 180 on Reader Service Card

tainers. Originally made by Pullman-Standard Mfg. Co. and Trailmobile Inc. The carrier is basically a mobile straddle unit mounted on airplane-type rubber tires, with a hoisting system. It's capable of spanning a full flatcar and highway trailer chassis, and transferring 40' containers in less than 5 minutes. Transfer controls are mounted over the left rear wheel. Driver controls are over right front wheel.

Marine Travelift &
Engineering Inc.

Layout Made Easy

Specially marked pressure sensitive tapes make it easy for anyone to make charts, layouts, etc. with a professional



Circle 181 on Reader Service Card

look. Part of the Graph-A-Plan system of charting materials, they come in 14 solid colors and 10 patterns in choice of 4 colors, for a total of 54 different tapes. Solid tapes range from 1/64" to 2" wide, patterns from 1/32" to 2" wide.

Labelon Tape Co.

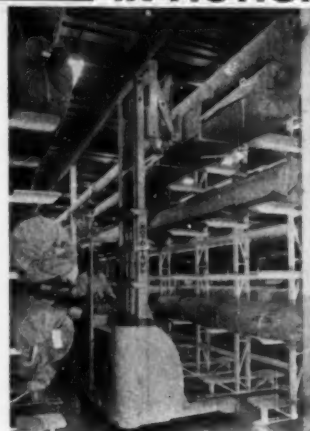
Safety Pull Hoists

An illustrated catalog shows six models of a new ratchet and pawl design RA series safety pull hoists. The brochure includes specifications, prices and dimensions for capacities from 3/4 ton to 6 ton.

Coffing Hoist Division, Duff Norton Co.

Circle 182 on Reader Service Card

EQUIPMENT IN ACTION



Circle 222 on Reader Service Card
BOLTLESS adjustable Speed-racks, built on a cantilever principle, store carpet easily and efficiently at a Montgomery Ward & Co. store. A reach-type side loader quickly selects the right roll of carpeting. The store uses free-standing racks with plywood shelving to store furniture.



EQUIPTO Iron-Grip® Steel Shelving with the exclusive stud

Exclusive steel stud permits 60% faster shelf adjustment on 1 1/2" centers without nuts, bolts or tools. The more you load the shelf the tighter it grips, yet shelf may be moved easily.

Equipto Iron-Grip Shelving is immediately available from stock in all sizes, either open or closed, with or without dividers, bin fronts, drawers or label holders. Write for complete reference manual No. 485.

Stud eliminates clips, nuts, bolts and tools

A slope in the keyhole joins with the taper on the stud to form the tightest and strongest of grips. An exclusive Equipto feature.



Equipto

806 Prairie Avenue
Aurora, Illinois

Manufacturer of World's Finest

Steel Shelving-Slotted Angle-Bins-Drawer Units-Lockers-Carts-Benches.

Circle 37 on Reader Service Card



HAVE YOU CHECKED THE READABILITY OF YOUR SHIPMENT ADDRESSING LATELY?



COMPARISON OF READABILITY FROM A DISTANCE OF SIX FEET.

In this day of increased freight rates caused by freight claims due to lost shipments it's time to take a close look at your shipment addressing. Are you getting clear, readable, large letter results? If not you should be interested in better addressing through the use of machine cut stencils. Keep this in mind — regardless of how you apply your address — it must be read easily by freight handlers.

IT'S THE RESULT THAT COUNTS

For a peek into what improper marking is costing you send for this FREE booklet of facts today.

WRITE TO
DIAGRAPH-BRADLEY INDUSTRIES, INC.
P. O. BOX 269
HERRIN, ILL.



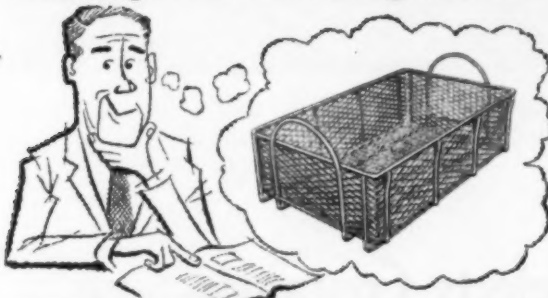
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Looking For A Way to cut small parts handling costs?



EEZY-STAK BASKETS STOP EXTRA HANDLING, SPEED PARTS PROCESSING ... REDUCE COSTS!

Here's how one manufacturer solved costly, time-consuming, small parts handling. Using EEZY-STAK standard wire baskets, a complete series of parts transfer operations was eliminated. Result: Five production processes now performed in one basket—degreasing, drying, pickling, rinsing, cyaniding—plus storage, without parts removal!

EEZY-STAK baskets have the exclusive, patented interlock handle, for easy stacking and compact storage. Open mesh construction. Full visibility ... quick drainage ... clean! From initial production to final assembly, EEZY-STAK baskets put small parts handling on an economical, low-cost basis. Cut Costs! Investigate the advantages of EEZY-STAK baskets for your plant!

Write today for Bulletin No. B-54 to Wire & Iron Products Inc., 1720 Sixteenth Street, Detroit 16, Michigan.



Circle 88 on Reader Service Card



For modern materials handling

ELECTROLIFT WORM-DRIVE HOISTS

Dependable, long-lasting ElectroLift hoists are used by the thousands in America's largest manufacturing plants. Features of these units—ranging from ¼- to 10-ton capacity—include:

- Worm-drive design for safe, sure braking action with minimum maintenance
- Use of quality components and

materials for trouble-free performance

- Fully enclosed motor and gearing for clean, quiet operation
- Greater compactness for close headroom, safer action

For details on speed, models and operation, consult your classified directory for the ElectroLift representative nearest you.



204 Sargeant Avenue

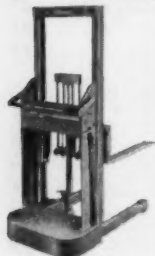
Clifton, N. J.

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AMERICAN
Safeway

PORTABLE ELEVATING TRUCKS
for any stacking job

From 46" to 130" lift



STANDARD
MODELS
priced from

\$190⁰⁰

to

\$855⁰⁰



Your crew can do twice the
handling work for
the same payroll cost

...and to take the heavy work
and heavy costs out of
HORIZONTAL HANDLING

AMERICAN
LOAD-JOCKEY



... the new drive
attachment for
portable elevating trucks

MATERIALS-HANDLING DIVISION

The American Pulley Company

4200 Wissahickon Ave., Philadelphia 29, Pa.

AMERICAN SAFEWAY TRUCKS—

by the makers of the famous American Pressed-Steel
Hand Trucks



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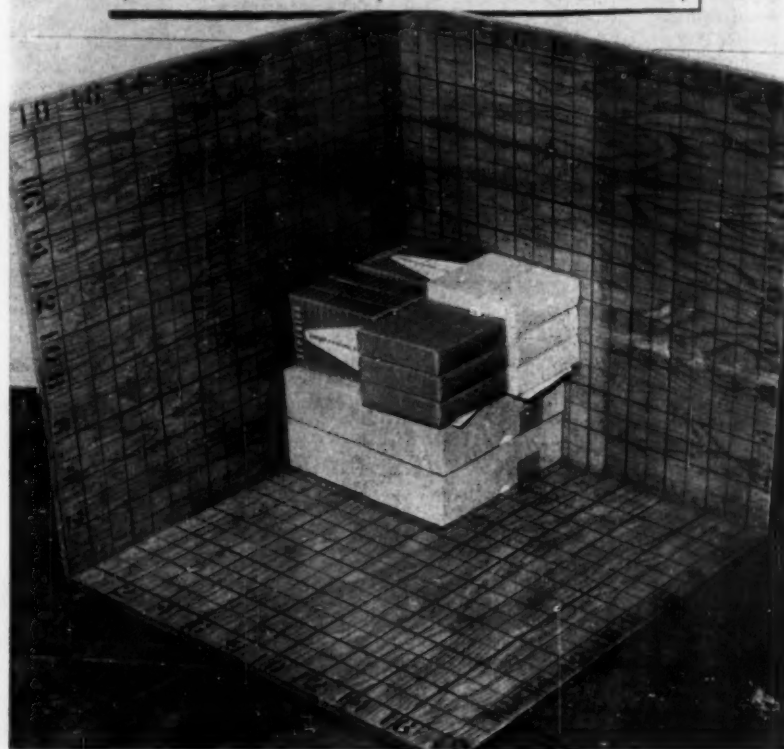


PHOTO FEATURE

PACKAGE DIMENSIONAL GUIDE

DESIGNED BY PACKING BRANCH

NSD MECHANICSBURG



GUESSWORK IS GONE from package selection with the Package Dimensional Guide. Easily built in any shop, it tells you exactly what size box to use.

Guide Selects Container Size

CHOOSE the right size box for the load at a glance with the Package Dimensional Guide. It's a real time saver. The packaging men at the Navy Supply Depot, Mechanicsburg, Pa. designed it and they swear by it.

The depot stocks knocked-down boxes in many sizes. Their packers used to take a look at the load to be packed, then try to guess the right box to fit. They were often

wrong. When the box was nearly full, they'd have to unpack and start over again. Now they simply arrange the goods in the corner of the guide just as they'd pack them in a box. Then they read the box dimensions from the walls and bottom of the guide. Heavy lines are even numbers, light lines are odd.

The example shown here would need a container at least 10" x 8" x 9", larger if cushioning is used. **

STANLEY STRAPAPPLICATIONS

"Creative Packaging" Reduces Costs!



Use of a **STANLEY Power Strapping Machine** resulted in a better package, light enough to be handled by one man . . . more than 50% savings in packaging time . . . annual labor savings in excess of \$600.00 . . . substantial savings in packaging materials. — Imperial Type Metal Co., Philadelphia, Pennsylvania and Chicago, Illinois.

Many companies are effecting substantial savings and are receiving other important benefits through the use of "creative packaging" made possible by The **STANLEY Steel Strapping System**.

Learn how you, too, can cut costs and achieve other advantages. Simply check both boxes on the coupon below and mail today. We will send you a "Creative Packaging" File filled with ideas, and have The **STANLEY Steel Strapping Specialist** call. He will study your packaging and shipping operations and make recommendations for a steel strapping installation designed especially to your needs.



Packaging time cut 50% . . . man-hours cut 30% . . . and damage claims cut 20% with **STANLEY Steel Strapping System** . . . without any increase in the cost of packaging materials. — Colonial Press, Inc., Clinton, Massachusetts.

Packaging time reduced by one-half . . . one man loads tractor-trailer in one-half hour where two men used to take one and one-half hours . . . customers effect savings, too—Ainsworth Precision Castings Co., Inc., Syracuse, New York.

STANLEY

SEND FOR FREE "CREATIVE PACKAGING" FILE

Insure it . . .
Secure it
with
STANLEY
Steel Strapping

AMERICA BUILDS BETTER AND LIVES BETTER WITH STANLEY

STANLEY

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This famous trademark distinguishes over 20,000 quality products of The Stanley Works, New Britain, Conn.—hand tools • electric tools • builders hardware • industrial hardware • drapery hardware • automatic door controls • aluminum windows • stampings • springs • coatings • strip steel • steel strapping—made in 24 plants in the United States, Canada, England and Germany.
In Canada: Steel Strapping Division, The Stanley Works of Canada, Ltd., Hamilton, Ontario

- **STANLEY STEEL STRAPPING,**
- Division of The Stanley Works,
- Dept. D, 20 Corbin Avenue, New Britain, Connecticut
- ☐ Send me free "Creative Packaging" File.
- ☐ Have "Specialist" call.

Name _____ Title _____
Company _____
Address _____
City _____
Zone _____ State _____ Phone _____

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is well spent
reading**



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and keep you up with the changing times. There's no wading through a mass of publications to get the information you want and need.

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gets magazines
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